

Appendix C
Results of PROSIM and EBMUDSIM Modeling

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This appendix provides information on the assumptions used in hydrologic modeling with the PROSIM and EBMUDSIM models. Tabular hydrologic results for existing conditions; Alternatives 1, 2, and 3; and cumulative conditions are provided for key locations in the Central Valley. This information is provided as supporting information to the description of expected hydrologic conditions in Chapter 3, "Hydrology, Water Supply, and Power."

Reclamation and the U.S. Fish and Wildlife Service recently discovered an inconsistency in the PROSIM input hydrology that may cause the model to overestimate the potential flexibility of Central Valley Project (CVP) operations. As a result, the PROSIM simulations presented in this analysis may underestimate the use of CVP storage and overestimate water deliveries in some critical dry years. This inconsistency affects all the PROSIM simulations reported in this draft EIR/EIS but probably does not significantly change the relative differences between the simulations for each alternative. Because of the parallel effect on the simulations and the use of a comparable analysis, there is no expected effect on the impact conclusions in the EIR/EIS. Reclamation is in the process of making coding changes to PROSIM. When those coding changes are calibrated and approved for use, PROSIM simulations will be updated if necessary.

Tables C-1 and C-2 show the Folsom Reservoir storage and lower American River storage relationships for Anadromous Fish Restoration Program and Water Forum recommended flows, respectively. Tables C-3

through C-9 show deliveries by either EBMUD, the City, or the County made over the 70-year hydrologic period under the modeled alternatives. Tables C-10 through C-26 show the average, maximum, and minimum reservoir storage or river flows at sites analyzed in the EIR/EIS. Information contained in these tables includes existing conditions (1995 level of demand); conditions under Alternatives 1, 2, and 3 (2030 level of demand); and comparisons between existing conditions and Alternative 1, Alternative 1 and Alternatives 2 and 3, and existing conditions and Alternatives 2 and 3 cumulative conditions.

Table C-10 depicts hydrologic conditions at Folsom Reservoir. Tables C-11 and C-12 show hydrologic conditions on the lower American River below Nimbus Dam and Fairbairn WTP, respectively. Tables C-13 and C-14 show conditions at Trinity Lake and Shasta Lake, respectively. Sacramento River flows predicted at Keswick Reservoir and Freeport are shown in Tables C-15 and C-16. Lake Oroville storage and Feather River flows are shown in Tables C-17 and C-18. Information on Delta inflow, Delta outflow, SWP deliveries, and CVP deliveries south of the Delta are shown in Tables C-19 through C-22. Tables C-23 and C-24 show changes in combined storage at Camanche and Pardee reservoirs and changes in release flows from Camanche Reservoir to the lower Mokelumne River. Tables C-25 and C-26 show changes in power generation at Folsom Dam and the combined CVP north facilities.

Table C-27 provides a summary of hydrologic results for the full-use scenario compared to Alternative 1.

Appendix C. Results of PROSIM and EBMUDSIM Modeling

EBMUD Modeling Assumptions

INTRODUCTION

Computer modeling was performed to assess the potential effects on river flow, reservoir storage, and water supplies of EBMUD taking delivery of its Central Valley Project (CVP) contract. The computer simulations were performed using the PROSIM computer model developed by the U.S. Bureau of Reclamation (Reclamation).

The extensive data collection effort conducted for the Central Valley Project Improvement Act (CVPIA) programmatic environmental impact statement (PEIS) has provided information on hydrologic and water use for existing and future conditions. Although the CVPIA PEIS has not released as a public draft, much of the background data have been released for environmental documents prepared by Reclamation and other agencies. These data provide a foundation for the data used in the EBMUD modeling.

DATA FILES

The PEIS data was used for much of the EBMUD modeling. There are however, differences between the two modeling efforts, primarily relating to different water demand assumptions. The files used in the EBMUD modeling are listed in Table 1 and explained in the notes that follow.

Table 1. Files Used in the EBMUD Modeling and Sources of Data

PROSIM Input File	File Name	Source	Difference
Bypass Power Flows		Not Used ¹	
Pre-operated Eastside Streams Flow	cmc_eb1.dat	CVPIA PEIS	New SANJASM run ²
Carriage Water Tables		Not Used ¹	
Deficiency Table for CVP Nodes	dfc_eb1b.dat	PEIS/NEW ³	Recomputed for EBMUD
Deficiency Table for SWP Nodes	dfs_20g4.nal	CVPIA PEIS	Same as PEIS
Delta Demands	delta1d.dat	PEIS/NEW ⁴	Combined PEIS files
Delta Outflow Index	doi_545b.nal	CVPIA PEIS	Same as PEIS
EPA X2 Requirements	epa_556c.nal	CVPIA PEIS	Same as PEIS
CVP Deficiencies Time Series		Not Used ¹	
Flood Control Criteria	fld_reop.dat	SAFCA ⁵	Folsom flood storage
SWP Deficiencies Time Series		Not Used ¹	
Instream Flow Standards	fts_20g2.a1c	CVPIA PEIS	Same as PEIS
Special Fish & Wildlife Flow Requirements		Not Used ¹	
Fish & Wildlife Flow Requirements	fwq_5.dat	PEIS/NEW ⁶	Dry year adjustments
Gain to Streams	gan_20ga.nal	CVPIA PEIS	Same as PEIS
Power Generation File	gen_534a.nal	CVPIA PEIS	Same as PEIS
Groundwater Control File	gwc_1995.nal	CVPIA PEIS	Same as PEIS
Groundwater Data		Not Used ¹	
Groundwater Pumping	gwp_20g2.nal	CVPIA PEIS	Same as PEIS
Hodge Decision Requirements		Not Used ¹	
Inflow Time Series	inf_ebm2.dat	PEIS/NEW ⁷	Revised Folsom Inflow
MDO Input, both Gates Open		CVPIA PEIS	Same as PEIS
MDO Input, both Gates Closed	mdo_555d.dat	Not Used ¹	
MDO Input, One Gate Open		Not Used ¹	
Non-project Demand Time Series	npd_eb1.dat	PEIS/NEW ⁸	Node 13
Non-project Efficiency	npe_20g2.nal	CVPIA PEIS	Same as PEIS
Project Agricultural Demands	pag_20g1.dat	CVPIA PEIS	Same as PEIS
Project Efficiency	pe_eb1.dat	PEIS/NEW ⁹	EBMUD returns
Project M&I Demands	pmi_eb1.dat	PEIS/NEW ¹⁰	American River
Power Data		CVPIA PEIS	Same as PEIS
Groundwater Pumping	pts_used.not	Not Used ¹¹	
QWEST Requirements	qw_542b.nal	CVPIA PEIS	Same as PEIS
Delta Export/Inflow Ratio	rat_545b.nal	CVPIA PEIS	Same as PEIS
Reservoir Criteria	res_ebm.dat	PEIS/NEW ¹¹	New PROSIM version
Pre-operated San Joaquin River Flow	sjr_eb.dat	CVPIA PEIS	New SANJASM run ²
SWP Demands	swp_20g4.nal	CVPIA PEIS	Same as PEIS
Cross Channel Gate Criteria	xcg_544a.nal	CVPIA PEIS	Same as PEIS
Year Type	yrt_548a.nal	CVPIA PEIS	Same as PEIS

See the following notes for additional detail on the files used in the analysis.

NOTES**Note 1. File not used**

Only those options specific to the modeling needs of the EBMUD analysis were used in the simulations.

Note 2. Eastside Streams

The SANJASM computer model is typically used to develop data representing the San Joaquin River and the eastside streams inflow to the Delta. The EBMUD modeling includes data from a new SANJASM run developed after the PEIS modeling effort. The differences in the data between the files are shown in Table 2.

**Table 2. Differences Between PEIS and EBMUD Modeling
Data for Eastside Streams and San Joaquin River
(KAF)**

	PEIS Eastside	PEIS San Joaquin	EBMUD Eastside	EBMUD San Joaquin
70-year average	779	2750	774	2756
Drv Year Average	280	1279	249	1340

Note 3. CVP Deficiencies

This file began with data developed from the PEIS but was modified to reflect specific EBMUD modeling assumptions. The modifications relate to the American River demands which are different than the demands assumed in the PEIS.

Note 4. Delta Demands

PROSIM includes demands in the Delta that are associated with the consumptive use and the required Delta outflow. The version of PROSIM used in the PEIS has these demands in two files, whereas the version used in the EBMUD modeling has the demands in one file. The Delta demand simulated in the EBMUD modeling contains the data from the two PEIS files.

Note 5. Flood Control

The flood control operation of Folsom Reservoir was modified from the data used in the PEIS to match the data describing the reoperation of the reservoir as proposed by the Sacramento Area Flood Control Agency. The operation, known as the 400-670

thousand acre-foot curve provides additional storage space for floodwater. The PEIS used the flood control curve known as the 400 thousand acre-foot fixed.

Note 6. Instream Flow Standards

Instream flow standards on the various CVP streams was assumed based on the PEIS interpretation of dedicated water and the flows identified in the Anadromous Fish Restoration Program (AFRP) plan. The conditions assumed in the PEIS are one representation of how dedicated water might be implemented and were used in the EBMUD project. The data files include dedicated water in upstream rivers based on the methodology assumed in the PEIS (Alternative 1c) with minor adjustments to smooth the instream flow requirements for drought conditions.

Note 7. Folsom Inflow

For the PEIS, the Placer County Water Agency diversion at Auburn was simulated at Folsom Reservoir. For this EBMUD analysis, the PCWA diversion of 35 KAF was diverted upstream of the reservoir by removing the diversion from the data representing inflow to Folsom Reservoir. Therefore the inflow data file differs between the PEIS and the EBMUD modeling to reflect the moving of the PCWA diversion.

Note 8. Non project demands

The methodology used to calculate non project demands at Node 13 uses a water balance that includes CVP diversions, inflow, and flow gains. The non project demands used in the EBMUD modeling vary slightly from the PEIS version because the American River demands vary between the two simulations. This variation in demands results in slightly different non project demands at Node 13.

Note 9. CVP efficiency

The demands simulated in PROSIM at each node have an associated water use efficiency that reflects the portion of the diversion that returns to the river. PROSIM applies the efficiency factor for each node to the total diversion at the node. The efficiency data developed in the PEIS was used as a basis for this analysis but was modified to reflect the EBMUD diversion, which is aggregated with other diversions at a node. The modification was necessary because water diverted to EBMUD would not return to the river similar to other American River diversions. If a typical CVP efficiency were applied to the total diversion (including EBMUD), the return flow would be too high. Using the modified efficiency resulted in PROSIM computing the same return flow at the EBMUD node that would occur without diversion by EBMUD.

Note 10. CVP M&I demands

The CVP M&I demands in the EBMUD modeling use data developed for the PEIS but modified the American River demands. Outside the American River basin, the CVP M&I demands are equal between the PEIS and the EBMUD project.

Future American River demands were estimated based on the available diversion capacity, water rights, or demands. A comparison of these demands with the levels assumed in the PEIS is shown in Table 3.

The EBMUD simulations were performed for EBMUD diversions at the Folsom South Canal and at the mouth of the American River, depending on the alternative. The diversions simulated in the model runs are shown in Table 4. PROSIM does not have a node at the mouth of the American River and therefore the Joint Project diversion was simulated upstream at Node 16. This node includes the existing City of Sacramento diversion.

Note 11. Reservoir criteria

The PEIS reservoir file was adjusted to account for differences in PROSIM versions used in the PEIS and the EBMUD modeling.

Other Assumptions**Dedicated Water**

For the EBMUD modeling, a simulation will be performed assuming dedicated water in the Delta and demands and diversions associated with the Joint Project. This run can be compared with the current Joint Project run that only included dedicated water upstream of the Delta, to estimate the effect of this additional regulatory criteria on model results. The dedicated water in the Delta simulation will include measures 1, 3, and 5 as follows.

Measure 1-Limit Delta export based on the Delta inflow/export ratio. Divert a maximum of 1,500 cfs from April 15-May 15 of each year

Measure 3-Use revised X2 locations.

Measure 5- Include ramping of exports from April 1-April 15 and May 15-June 1.

**Table 3. Comparison of American River Demands
(KAF)**

	PEIS Alt 1C	No-Action Alternative	Nimbus-Only Alternative	Joint Project Alternative
Node 14				
PCWA Water Rights	120.0 ¹	25.0	25.0	25.0
PCWA		0.0	0.0	0.0
Roseville		0.0	0.0	0.0
Granite Bay		25.0	25.0	25.0
Northridge		0.0	0.0	0.0
North Area Water Rights	59.0	60.0	60.0	60.0
Fair Oaks		15.0	15.0	15.0
Citrus Heights		18.0	18.0	18.0
City of Folsom		20.0	20.0	20.0
Folsom Prison		2.0	2.0	2.0
Folsom Transfer		5.0	5.0	5.0
San Juan Suburban	11.2	11.2	11.2	11.2
Orangevale		6.5	6.5	6.5
City of Folsom		0.7	0.7	0.7
San Juan (Co.)		4.0	4.0	4.0
El Dorado ID	7.6	7.6	7.6	7.6
El Dorado Hills		7.6	7.6	7.6
EID		0.0	0.0	0.0
Georgetown		0.0	0.0	0.0
Roseville	32.0	26.0	26.0	26.0
Roseville (CVP)		26.0	26.0	26.0
PCWA (CVP)		0.0	0.0	0.0
Total	229.8	129.8	129.8	129.8
Node 15				
So California Water Co	10.0	5.0	5.0	5.0
Original Amount		10.0	10.0	10.0
Folsom Transfer		-5.0	-5.0	-5.0
SMUD	30.0	15.0	15.0	15.0
EBMUD	0.0	0.0	28.9 ²	0.0
Losses	5.0	5.0	5.0	5.0
CA Parks and Rec	5.0	5.0	5.0	5.0
Sac Co.	0.0	15.0	15.0	15.0
Total	50.0	45.0	73.9	45.0

Table 2. Comparison of American River Demands (Continued)
(KAF)

	PEIS Alt 1C	No-Action Alternative	Nimbus-Only Alternative	Joint Project Alternative
Node 16				
City of Sac	216.5 ¹	100.0	100.0	169.2
Sacramento		96.5	96.5	165.7
Arcade		3.5	3.5	3.5
EBMUD	0.0	0.0	0.0	112.0
Sacramento County	0	0	0	27.7
Carmichael	15.0	12.0	12.0	12.0
Total	231.5	112.0	112.0	320.9
Node 17				
City of Sacramento	72.0	81.2	81.2	81.2
Sacramento County Ag		0.0	0.0	0.0
PCWA		0.0	0.0	0.0
Total	72.0	81.2	81.2	81.2

1 - The PEIS analysis assumes that PCWA will divert its entire Middle Fork Project water rights water and the City of Sacramento will divert a substantial portion of its water rights.

2 - Average annual delivery through the Folsom South Canal based on 400 cfs EBMUD capacity, diversions subject to Hodge criteria, and EBMUD operations.

Table 4. EBMUD Alternatives
Simulated Demands

	No-Action	Nimbus-Only	Joint Project
Diversion Location	Not Applicable	Node 15	Node 16
Diversion Quantity	Not Applicable	28.9 KAF	112.0 KAF

Note: Node 15 is the Folsom South Canal and Node 16 is the Fairbairn Treatment Plant

EBMUD Modeling Assumptions

EBMUDSIM Program Version: 10-96, WSIP Version of EBMUDSIM

Study 10-6090 Purpose (Alternative 2): American River water deliveries taken when EBMUD total system end-of-September storage is below 500 TAF and when Hodge flows are met. Delivery up to 155 cfs from March to February.

Study 10-6046 Purpose (Alternative 3): American River water deliveries taken when EBMUD total system end-of-September storage is below 500 TAF. Delivery up to 155 cfs from March to February.

River Conditions: 2020 level of development

Study Period: 1921 -1995

Pardee Dead Storage: 32.2 TAF

Camanche Dead Storage: 4 TAF

Delivery Capacity: Pardee to Holt = 326 MGD
 Folsom South Canal to Holt = 155 MGD
 Holt to Local = 326 MGD

Special Operational Parameters

Required Minimum Total System Storage = 55.4 TAF

Deficiencies imposed to maintain minimum storage, based on end-of-September storage.

Deficiencies are interpolated between following values:

September storage < 300 TAF: 25% deficiency
September storage >= 300 TAF and < 450 TAF: 15 -25% deficiency
September storage >= 450 TAF and < 500 TAF: 0 -15% deficiency
September storage >= 500 TAF: No deficiency

Threshold deficiency for American River use: 0 TAF

Delivery subject to Water Forum draft recommended maximum delivery from American River of 150 TAF/yr.

Fish releases per signed Principles of Agreement (POA) for FERC settlement.

Increased Pardee dead storage represents the required 20 TAF of gainsharing under the POA.

Channel losses based upon releases from Camanche and range from 56 TAF to 120 TAF.

Table C-1. Storage - Flow Relationships for the AFRP Recommended Instream Flows for the Lower American River

Scenario	AFRP Criteria and Instream Flow Requirements for Various Hydrologic Scenarios											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	S	W	W	W	W	S + I	S + I	S + I	S + I	S + I	S + I	S + I
Criteria Value (TAF)	> 600	> 600	> 600	> 600	> 600	> 2850	> 2450	> 2050	> 1550	> 1250	> 1200	> 1150
Flow (cfs)	>2500	>250	>2500	>2500	>2500	>4500	>4500	>4500	>4500	>2500	>2500	>2500
Criteria Value (TAF)	600	600	600	600	600	2850	2450	2050	1550	1250	1200	1150
Flow (cfs)	2500	2500	2500	2500	2500	4500	4500	4500	4500	2500	2500	2500
Criteria Value (TAF)	500	500	500	500	500	2600	2250	1875	1425	1150	875	850
Flow (cfs)	2000	2500	2500	2250	2000	3750	3750	3750	3750	2500	2250	2000
Criteria Value (TAF)	410	410	410	410	410	2350	2050	1700	1300	1050	750	700
Flow (cfs)	2000	2000	2000	2000	2000	3000	3000	3000	3000	2050	2000	1500
Criteria Value (TAF)	350	350	350	350	350	1500	1350	1200	850	700	550	500
Flow (cfs)	1500	2000	2000	1750	1500	2500	2500	2500	2250	1875	1500	1000
Criteria Value (TAF)	300	300	300	300	300	1300	1150	1000	750	600	500	0
Flow (cfs)	800	1500	1500	1250	1250	1500	1500	1500	1500	1250	1000	500
Criteria Value (TAF)	250	250	250	250	250	1100	1000	900	650	500	0	0
Flow (cfs)	500	1000	1000	1000	1000	1250	1250	1250	1250	1000	500	500
Criteria Value (TAF)	0	0	0	0	0	900	700	600	500	0	0	0
Flow (cfs)	500	500	500	500	500	750	750	750	500	500	500	500
Criteria Value (TAF)						0	0	0	0			
Flow (cfs)						250	250	250	250			

Note: S= End of Previous Month's Folsom Storage; W = Beginning of Water Year's Folsom Storage (End-of-September Folsom Storage, Previous Water Year); I = Inflow to Folsom (Current Month + All Months Until End of Water Year)

Table C-2. Storage-flow Relationships for the Water Forum Recommended Instream Flows for the Lower American River

Scenario	Water Forum's F-PATTERN Triggers and Instream Flows											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
S	S	S	S	S	S + I	S + I	S + I	S + I	S + I	S + I	S + I	S + I
Trigger (TAF)	600	520	450	375	325	3105	2704	2309	2309	2309	2309	2309
Flow (cfs)	2500	2500	2500	2500	2500	6000	6000	6000	6000	3500	3500	3500
Trigger (TAF)	550	475	400	325	275	2561	2252	1946	1946	1946	1946	1946
Flow (cfs)	2250	2250	2250	2250	2250	4500	6500	4500	4500	2500	2500	2500
Trigger (TAF)	396	352	307	262	218	2056	1839	1625	1625	1625	1625	1625
Flow (cfs)	2000	2000	2000	1750	1500	3000	3000	3000	3000	2500	2000	1500
Trigger (TAF)	296	266	237	208	179	1385	1265	1140	1140	1140	1140	1140
Flow (cfs)	1200	1200	1200	1200	1200	1500	1500	1500	1500	1500	1500	1500
Trigger (TAF)	197	183	169	155	133	1224	1103	980	980	980	980	980
Flow (cfs)	875	1000	1000	1000	1000	1500	1500	1500	1500	1500	1500	1500
Trigger (TAF)	0	0	0	0	0	736	678	615	615	615	615	615
Flow (cfs)	500	500	500	500	500	500	500	500	500	500	500	500
Trigger (TAF)	0	0	0	0	0	0	0	0	0	0	0	0
Flow (cfs)	500	500	500	500	500	250	250	250	250	250	250	250

Note: S= End of Previous Month's Folsom Storage; I = Inflow to Folsom (Current Month + All Months Until End of Water Year)

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Table C-3. Deliveries to City from American River for Existing Conditions (cfs)

Water Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL (TAF)
1922	98	86	70	70	77	83	101	125	171	181	181	171	85
1923	98	86	70	70	77	83	101	125	171	181	181	171	85
1924	98	86	70	70	75	83	101	125	171	181	181	171	85
1925	98	86	70	70	77	83	101	125	171	181	181	171	85
1926	98	86	70	70	77	83	101	125	171	181	181	171	85
1927	98	86	70	70	77	83	101	125	171	181	181	171	85
1928	98	86	70	70	75	83	101	125	171	181	181	171	85
1929	98	86	70	70	77	83	101	125	171	181	181	171	85
1930	98	86	70	70	77	83	101	125	171	181	181	171	85
1931	98	86	70	70	77	83	101	125	171	181	181	171	85
1932	98	86	70	70	75	83	101	125	171	181	181	171	85
1933	98	86	70	70	77	83	101	125	171	181	181	171	85
1934	98	86	70	70	77	83	101	125	171	181	181	171	85
1935	98	86	70	70	77	83	101	125	171	181	181	171	85
1936	98	86	70	70	75	83	101	125	171	181	181	171	85
1937	98	86	70	70	77	83	101	125	171	181	181	171	85
1938	98	86	70	70	77	83	101	125	171	181	181	171	85
1939	98	86	70	70	77	83	101	125	171	181	181	171	85
1940	98	86	70	70	75	83	101	125	171	181	181	171	85
1941	98	86	70	70	77	83	101	125	171	181	181	171	85
1942	98	86	70	70	77	83	101	125	171	181	181	171	85
1943	98	86	70	70	77	83	101	125	171	181	181	171	85
1944	98	86	70	70	75	83	101	125	171	181	181	171	85
1945	98	86	70	70	77	83	101	125	171	181	181	171	85
1946	98	86	70	70	77	83	101	125	171	181	181	171	85
1947	98	86	70	70	77	83	101	125	171	181	181	171	85
1948	98	86	70	70	75	83	101	125	171	181	181	171	85
1949	98	86	70	70	77	83	101	125	171	181	181	171	85
1950	98	86	70	70	77	83	101	125	171	181	181	171	85
1951	98	86	70	70	77	83	101	125	171	181	181	171	85
1952	98	86	70	70	75	83	101	125	171	181	181	171	85
1953	98	86	70	70	77	83	101	125	171	181	181	171	85
1954	98	86	70	70	77	83	101	125	171	181	181	171	85
1955	98	86	70	70	77	83	101	125	171	181	181	171	85
1956	98	86	70	70	75	83	101	125	171	181	181	171	85
1957	98	86	70	70	77	83	101	125	171	181	181	171	85
1958	98	86	70	70	77	83	101	125	171	181	181	171	85
1959	98	86	70	70	77	83	101	125	171	181	181	171	85
1960	98	86	70	70	75	83	101	125	171	181	181	171	85
1961	98	86	70	70	77	83	101	125	171	181	181	171	85
1962	98	86	70	70	77	83	101	125	171	181	181	171	85
1963	98	86	70	70	77	83	101	125	171	181	181	171	85
1964	98	86	70	70	75	83	101	125	171	181	181	171	85
1965	98	86	70	70	77	83	101	125	171	181	181	171	85
1966	98	86	70	70	77	83	101	125	171	181	181	171	85
1967	98	86	70	70	77	83	101	125	171	181	181	171	85
1968	98	86	70	70	75	83	101	125	171	181	181	171	85
1969	98	86	70	70	77	83	101	125	171	181	181	171	85
1970	98	86	70	70	77	83	101	125	171	181	181	171	85
1971	98	86	70	70	77	83	101	125	171	181	181	171	85
1972	98	86	70	70	75	83	101	125	171	181	181	171	85
1973	98	86	70	70	77	83	101	125	171	181	181	171	85
1974	98	86	70	70	77	83	101	125	171	181	181	171	85
1975	98	86	70	70	77	83	101	125	171	181	181	171	85
1976	98	86	70	70	75	83	101	125	171	181	181	171	85
1977	98	86	70	70	77	83	101	125	171	181	181	171	85
1978	98	86	70	70	77	83	101	125	171	181	181	171	85
1979	98	86	70	70	77	83	101	125	171	181	181	171	85
1980	98	86	70	70	75	83	101	125	171	181	181	171	85
1981	98	86	70	70	77	83	101	125	171	181	181	171	85
1982	98	86	70	70	77	83	101	125	171	181	181	171	85
1983	98	86	70	70	77	83	101	125	171	181	181	171	85
1984	98	86	70	70	75	83	101	125	171	181	181	171	85
1985	98	86	70	70	77	83	101	125	171	181	181	171	85
1986	98	86	70	70	77	83	101	125	171	181	181	171	85
1987	98	86	70	70	77	83	101	125	171	181	181	171	85
1988	98	86	70	70	75	83	101	125	171	181	181	171	85
1989	98	86	70	70	77	83	101	125	171	181	181	171	85
1990	98	86	70	70	77	83	101	125	171	181	181	171	85
1991	98	86	70	70	77	83	101	125	171	181	181	171	85
Minimum	98	86	70	70	75	83	101	125	171	181	181	171	85
69 yr-Avg	98	86	70	70	77	83	101	125	171	181	181	171	85
Maximum	98	86	70	70	77	83	101	125	171	181	181	171	85



Jones & Stokes Associates, Inc.

Table C-4. Deliveries to the City from American River for Alternative 1 (cfs) *

Water Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL (TAF)
1922	114	101	81	81	90	98	118	146	202	211	211	202	100
1923	114	101	81	81	90	98	118	146	202	211	211	202	100
1924	114	101	81	81	87	98	118	146	202	211	211	202	100
1925	114	101	81	81	90	98	118	146	202	211	211	202	100
1926	114	101	81	81	90	98	118	146	202	211	211	202	100
1927	114	101	81	81	90	98	118	146	202	211	211	202	100
1928	114	101	81	81	87	98	118	146	202	211	211	202	100
1929	114	101	81	81	90	98	118	146	202	211	211	202	100
1930	114	101	81	81	90	98	118	146	202	211	211	202	100
1931	114	101	81	81	90	98	118	146	202	211	211	202	100
1932	114	101	81	81	87	98	118	146	202	211	211	202	100
1933	114	101	81	81	90	98	118	146	202	211	211	202	100
1934	114	101	81	81	90	98	118	146	202	211	211	202	100
1935	114	101	81	81	90	98	118	146	202	211	211	202	100
1936	114	101	81	81	87	98	118	146	202	211	211	202	100
1937	114	101	81	81	90	98	118	146	202	211	211	202	100
1938	114	101	81	81	90	98	118	146	202	211	211	202	100
1939	114	101	81	81	90	98	118	146	202	211	211	202	100
1940	114	101	81	81	87	98	118	146	202	211	211	202	100
1941	114	101	81	81	90	98	118	146	202	211	211	202	100
1942	114	101	81	81	90	98	118	146	202	211	211	202	100
1943	114	101	81	81	90	98	118	146	202	211	211	202	100
1944	114	101	81	81	87	98	118	146	202	211	211	202	100
1945	114	101	81	81	90	98	118	146	202	211	211	202	100
1946	114	101	81	81	90	98	118	146	202	211	211	202	100
1947	114	101	81	81	90	98	118	146	202	211	211	202	100
1948	114	101	81	81	87	98	118	146	202	211	211	202	100
1949	114	101	81	81	90	98	118	146	202	211	211	202	100
1950	114	101	81	81	90	98	118	146	202	211	211	202	100
1951	114	101	81	81	90	98	118	146	202	211	211	202	100
1952	114	101	81	81	87	98	118	146	202	211	211	202	100
1953	114	101	81	81	90	98	118	146	202	211	211	202	100
1954	114	101	81	81	90	98	118	146	202	211	211	202	100
1955	114	101	81	81	90	98	118	146	202	211	211	202	100
1956	114	101	81	81	87	98	118	146	202	211	211	202	100
1957	114	101	81	81	90	98	118	146	202	211	211	202	100
1958	114	101	81	81	90	98	118	146	202	211	211	202	100
1959	114	101	81	81	90	98	118	146	202	211	211	202	100
1960	114	101	81	81	87	98	118	146	202	211	211	202	100
1961	114	101	81	81	90	98	118	146	202	211	211	202	100
1962	114	101	81	81	90	99	118	146	202	211	211	202	100
1963	114	101	81	81	90	98	118	146	202	211	211	202	100
1964	114	101	81	81	87	98	118	146	202	211	211	202	100
1965	114	101	81	81	90	98	118	146	202	211	211	202	100
1966	114	101	81	81	90	98	118	146	202	211	211	202	100
1967	114	101	81	81	90	98	118	146	202	211	211	202	100
1968	114	101	81	81	87	98	118	146	202	211	211	202	100
1969	114	101	81	81	90	98	118	146	202	211	211	202	100
1970	114	101	81	81	90	98	118	146	202	211	211	202	100
1971	114	101	81	81	90	98	118	146	202	211	211	202	100
1972	114	101	81	81	87	98	118	146	202	211	211	202	100
1973	114	101	81	81	90	98	118	146	202	211	211	202	100
1974	114	101	81	81	90	98	118	146	202	211	211	202	100
1975	114	101	81	81	90	98	118	146	202	211	211	202	100
1976	114	101	81	81	87	98	118	146	202	211	211	202	100
1977	114	101	81	81	90	49	59	73	101	106	106	101	64
1978	57	50	41	41	45	98	118	146	202	211	211	202	86
1979	114	101	81	81	90	98	118	146	202	211	211	202	100
1980	114	101	81	81	87	98	118	146	202	211	211	202	100
1981	114	101	81	81	90	98	118	146	202	211	211	202	100
1982	114	101	81	81	90	98	118	146	202	211	211	202	100
1983	114	101	81	81	90	98	118	146	202	211	211	202	100
1984	114	101	81	81	87	98	118	146	202	211	211	202	100
1985	114	101	81	81	90	98	118	146	202	211	211	202	100
1986	114	101	81	81	90	98	118	146	202	211	211	202	100
1987	114	101	81	81	90	98	118	146	202	211	211	202	100
1988	114	101	81	81	87	98	118	146	202	211	211	202	100
1989	114	101	81	81	90	98	118	146	202	211	211	202	100
1990	114	101	81	81	90	98	118	146	202	211	211	202	100
1991	114	101	81	81	90	98	118	146	202	211	211	202	100
Minimum	57	50	41	41	45	49	59	73	101	106	106	101	64
69 yr-Avg	113	100	81	81	89	97	117	145	200	210	210	200	99
Maximum	114	101	81	81	90	98	118	146	202	211	211	202	100

Note: * Deliveries shown represent the City's intake from the Fairbairn WTP only



Jones & Stokes Associates, Inc.

Table C-5. Deliveries to EBMUD from American River for Alternative 2 (cfs)

Water Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL (TAF)
1922	0	0	0	0	0	30f	314	0	0	0	0	0	37
1923	72	202	0	0	0	0	314	0	0	0	0	0	35
1924	0	286	350	158	341	0	0	0	0	0	0	0	68
1925	0	0	0	0	0	353	0	314	0	0	0	0	38
1926	0	272	350	99	0	0	0	0	0	0	0	0	43
1927	0	0	0	350	112	61	0	0	0	0	0	0	25
1928	0	0	350	112	0	0	314	0	0	0	0	0	47
1929	0	0	350	107	0	0	0	0	0	0	0	0	28
1930	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	0	341	0	0	0	0	0	350	263
1933	184	272	57	195	353	0	0	0	0	0	0	0	0
1934	0	0	0	0	0	0	0	0	0	0	0	0	0
1935	0	0	0	0	0	0	0	0	0	0	0	0	0
1936	0	227	80	0	0	0	0	0	0	0	0	0	38
1937	21	350	168	211	0	0	210	0	0	0	0	0	60
1938	0	286	0	198	0	0	0	0	0	0	0	0	39
1939	46	213	350	104	353	0	0	0	0	0	0	0	63
1940	0	0	0	0	341	0	206	0	0	0	0	0	37
1941	0	168	0	0	0	0	213	0	0	0	0	0	23
1942	44	203	0	0	0	338	81	0	0	0	0	0	41
1943	55	0	0	0	0	0	0	0	0	0	0	0	3
1944	0	350	150	145	0	0	0	0	0	0	0	0	49
1945	0	350	102	0	0	0	0	0	0	0	0	0	49
1946	0	0	0	0	0	0	317	314	0	0	0	0	38
1947	0	54	55	88	0	0	0	0	0	0	0	0	12
1948	0	350	350	93	0	0	0	0	0	0	0	0	48
1949	0	248	187	67	0	0	0	0	0	0	0	0	30
1950	0	128	83	0	0	0	163	0	0	0	0	0	23
1951	0	0	0	0	0	0	165	0	0	0	0	0	10
1952	0	136	0	0	0	0	0	0	0	0	0	0	8
1953	46	236	307	0	0	0	314	0	0	0	0	0	55
1954	0	222	350	104	63	0	237	0	0	0	0	0	59
1955	0	188	0	0	0	0	0	0	0	0	0	0	11
1956	0	0	0	0	0	0	136	0	0	0	0	0	2
1957	0	257	309	151	0	0	0	0	0	0	0	0	0
1958	0	158	176	0	0	0	0	0	0	0	0	0	20
1959	50	234	350	281	0	0	0	0	0	0	0	0	56
1960	0	0	0	0	0	0	31	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	215	0	0	0	0	0	38
1963	320	346	350	156	0	338	213	0	0	0	0	0	105
1964	0	0	350	151	0	0	0	0	0	0	0	0	32
1965	0	0	0	0	0	0	237	0	0	0	0	0	15
1966	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	49	171	350	29	0	0	0	0	0	0	0	0	37
1969	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	28	87	0	0	0	0	0	0	0	0	0	0	7
1971	0	0	0	0	0	0	314	0	0	0	0	0	19
1972	16	0	0	106	223	0	0	0	350	280	0	0	58
1973	0	0	0	0	0	0	141	0	0	0	0	0	8
1974	0	0	0	0	0	38	0	0	0	0	0	0	2
1975	0	239	185	259	0	0	314	0	0	0	0	0	48
1976	0	0	215	254	341	0	0	0	0	0	0	0	0
1977	31	227	350	112	117	0	0	0	0	0	0	0	21
1978	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	301	311	0	0	0	187	0	0	350	350	42	49
1981	0	227	350	112	117	0	0	0	0	0	0	0	0
1982	0	350	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	41	111	0	0	0	0	0	0	0	0	5
1986	0	0	0	0	82	0	0	0	0	0	0	0	44
1987	0	239	350	137	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0	36
1989	0	0	0	0	298	0	0	0	0	266	21	0	0
1990	0	313	320	190	0	0	0	0	0	0	0	0	50
1991	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum	0	0	0	0	0	0	0	0	0	0	0	0	0
69 yr-Avg	14	110	108	58	42	27	75	4	15	23	5	0	29
Maximum	320	350	350	353	338	314	307	350	350	350	263	105	0

Jones & Stokes Associates, Inc.

Table C-6. Deliveries to EBMUD, City, and County from American River for Alternative 3 (cfs) *

Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL (TAF)
1922	140	129	112	112	118	127	143	168	208	216	213	203	114
1923	140	129	112	112	118	127	143	168	208	216	213	203	114
1924	62	62	62	62	62	216	217	216	217	216	216	217	110
1925	294	284	267	267	274	127	143	168	208	216	213	203	161
1926	62	62	62	62	62	216	217	216	217	216	216	217	110
1927	294	284	267	267	118	127	143	168	208	216	213	203	151
1928	140	129	112	112	116	127	143	168	208	216	213	203	114
1929	62	62	62	62	62	216	217	216	217	216	216	217	110
1930	216	217	216	216	219	216	217	216	217	216	216	217	157
1931	216	217	216	216	219	216	217	216	217	216	216	217	157
1932	294	284	267	267	267	127	143	168	208	216	213	203	160
1933	62	62	62	62	62	216	217	216	217	216	216	217	110
1934	216	217	216	216	219	216	217	216	217	216	216	217	157
1935	294	284	267	267	274	127	143	168	208	216	213	203	161
1936	140	129	112	112	116	127	143	168	208	216	213	203	114
1937	140	129	112	112	118	127	143	168	208	216	213	203	114
1938	140	129	112	112	118	127	143	168	208	216	213	203	114
1939	62	62	62	62	62	216	217	216	217	216	216	217	110
1940	294	284	267	267	198	127	143	168	208	216	213	203	156
1941	140	129	112	112	118	127	143	168	208	216	213	203	114
1942	140	129	112	112	118	127	143	168	208	216	213	203	114
1943	140	129	112	112	118	127	143	168	208	216	213	203	114
1944	62	62	62	62	62	62	62	62	62	62	62	62	45
1945	140	129	112	112	118	127	143	168	208	216	213	203	114
1946	140	129	112	112	118	127	143	168	208	216	213	203	114
1947	62	62	62	62	62	62	62	62	62	62	62	62	45
1948	140	129	112	112	116	127	143	168	208	216	213	203	114
1949	62	62	62	62	62	62	62	62	62	62	62	62	45
1950	140	129	112	112	118	127	143	168	208	216	213	203	114
1951	140	129	112	112	118	127	143	168	208	216	213	203	114
1952	140	129	112	112	116	127	143	168	208	216	213	203	114
1953	140	129	112	112	118	127	143	168	208	216	213	203	114
1954	140	129	112	112	118	127	143	168	208	216	213	203	114
1955	62	62	62	62	62	62	62	62	62	62	62	62	45
1956	140	129	112	112	116	127	143	168	208	216	213	203	114
1957	140	129	112	112	118	127	143	168	208	216	213	203	114
1958	140	129	112	112	118	127	143	168	208	216	213	203	114
1959	62	62	62	62	62	216	217	216	217	216	216	217	110
1960	216	217	216	216	213	216	217	216	217	216	216	217	157
1961	216	217	216	216	219	216	217	216	217	216	216	217	157
1962	294	284	267	267	274	127	143	168	208	216	213	203	161
1963	140	129	112	112	118	127	143	168	208	216	213	203	114
1964	62	62	62	62	62	216	217	216	217	216	216	217	110
1965	294	284	267	267	112	127	143	168	208	216	213	203	133
1966	62	62	62	62	62	62	62	62	62	62	62	62	45
1967	140	129	112	112	118	127	143	168	208	216	213	203	114
1968	62	62	62	62	62	216	217	216	217	216	216	217	110
1969	294	284	267	267	112	118	127	143	168	208	216	213	203
1970	140	129	112	112	118	127	143	168	208	216	213	203	114
1971	140	129	112	112	118	127	143	168	208	216	213	203	114
1972	62	62	62	62	62	62	62	62	62	62	62	62	45
1973	140	129	112	112	118	127	143	168	208	216	213	203	114
1974	140	129	112	112	118	127	143	168	208	216	213	203	114
1975	140	129	112	112	118	127	143	168	208	216	213	203	114
1976	62	62	62	62	62	216	217	216	217	216	216	217	110
1977	216	217	216	216	219	216	217	216	217	216	216	217	157
1978	294	284	267	267	274	281	297	322	363	371	368	358	226
1979	294	284	267	267	274	281	297	322	363	371	368	358	226
1980	294	284	267	267	112	116	127	143	168	208	216	213	203
1981	62	62	62	62	62	216	217	216	217	216	216	217	110
1982	294	284	112	112	118	127	143	168	208	216	213	203	133
1983	140	129	112	112	118	127	143	168	208	216	213	203	114
1984	140	129	112	112	116	127	143	168	208	216	213	203	114
1985	62	62	62	62	62	62	62	62	62	62	62	62	45
1986	140	129	112	112	118	127	143	168	208	216	213	203	114
1987	62	62	62	62	62	216	217	216	217	216	216	217	110
1988	216	217	216	216	213	216	217	216	217	216	216	217	157
1989	294	284	267	267	274	281	297	322	363	371	368	358	226
1990	216	217	216	216	219	216	217	216	217	216	216	217	157
1991	216	217	216	216	219	216	217	216	217	216	216	217	157
Minimum	62	62	62	62	62	62	62	62	62	62	62	62	45
69 yr-Avg	158	152	137	133	133	153	162	178	203	208	206	199	122
Maximum	294	284	267	267	274	281	297	322	363	371	368	358	226

Note: * Deliveries shown represent the City's intake from the Fairbairn WTP only



Jones & Stokes Associates, Inc.

Table C-7. Deliveries to EBMUD from American River for Alternative 2 Cumulative (cfs)

Water Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL (TAF)
1922	0	349	349	349	349	349	349	349	349	349	349	349	231
1923	30	0	0	0	0	0	349	349	349	349	349	0	107
1924	349	349	42	0	0	0	0	0	0	0	0	0	45
1925	0	0	0	0	349	0	349	349	349	349	349	0	104
1926	349	349	349	30	0	0	0	0	0	0	0	0	66
1927	0	0	0	349	349	349	349	349	349	349	349	0	168
1928	349	20	0	0	0	349	349	349	349	0	0	0	86
1929	0	0	0	0	0	0	0	0	0	0	0	0	0
1930	0	0	0	0	0	0	0	0	0	0	0	0	0
1931	0	0	0	0	0	0	0	0	0	0	0	0	0
1932	0	0	0	0	349	0	0	0	349	349	0	0	62
1933	349	349	349	349	349	0	0	0	0	0	0	0	105
1934	0	0	0	0	349	0	0	0	0	0	0	0	19
1935	0	0	0	0	0	349	349	0	0	349	0	0	64
1936	349	349	349	349	21	349	349	0	349	349	0	349	192
1937	349	349	42	0	0	349	349	349	0	349	0	0	108
1938	349	349	349	349	21	349	349	349	349	349	349	349	234
1939	30	0	0	0	0	0	0	0	0	0	0	0	2
1940	0	0	0	349	349	349	349	349	0	0	349	0	105
1941	0	349	349	349	349	349	349	349	349	349	349	0	210
1942	349	31	0	0	0	349	349	349	349	349	349	349	171
1943	30	0	0	0	0	349	349	0	349	349	0	0	86
1944	349	349	349	30	0	0	0	0	0	0	0	0	66
1945	0	349	349	349	349	349	0	0	0	349	0	349	125
1946	349	349	349	349	349	0	349	0	0	349	0	349	168
1947	349	349	349	349	34	0	0	0	0	0	0	0	87
1948	0	0	0	0	0	0	0	0	0	349	0	0	21
1949	0	349	349	349	0	0	0	0	0	0	0	0	64
1950	0	349	349	349	349	0	349	0	349	349	0	349	167
1951	349	349	349	42	0	349	0	349	0	349	0	0	131
1952	349	349	349	349	9	349	349	349	349	349	349	349	234
1953	30	0	0	0	0	0	0	0	349	349	349	349	108
1954	349	349	30	0	0	349	349	0	0	0	0	0	86
1955	0	349	349	349	0	0	0	0	0	0	0	0	64
1956	0	0	349	349	349	0	349	349	349	349	349	349	190
1957	349	31	0	0	0	349	0	0	349	349	0	0	87
1958	349	349	349	349	21	349	349	349	349	349	349	349	234
1959	30	0	0	0	0	0	0	0	0	0	0	0	2
1960	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	349	349	349	349	0	349	349	349	349	349	349	0	210
1964	349	349	42	0	0	0	0	0	0	0	0	0	45
1965	0	349	349	349	349	349	349	0	349	349	349	349	190
1966	0	349	349	19	0	0	0	0	0	0	0	0	43
1967	0	349	349	349	349	349	349	349	349	349	349	349	231
1968	30	0	0	0	0	0	0	0	0	0	0	0	2
1969	0	0	349	349	349	349	349	349	349	349	349	349	189
1970	30	0	0	0	0	0	0	0	0	0	0	0	2
1971	0	349	349	349	349	349	349	0	0	349	349	349	189
1972	349	349	30	0	0	0	0	0	0	0	0	0	44
1973	0	349	349	349	349	349	349	0	349	0	349	0	147
1974	349	349	349	349	9	349	349	349	349	349	349	349	234
1975	30	0	0	0	0	349	0	349	349	349	349	349	129
1976	349	20	0	0	0	0	0	0	0	0	0	0	23
1977	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	349	349	349	349	349	0	349	349	0	146
1979	349	349	42	0	0	0	0	0	349	349	0	0	87
1980	0	349	349	349	349	349	0	0	349	349	0	349	147
1981	349	349	349	349	34	0	0	0	0	0	0	0	87
1982	0	349	349	349	349	349	349	349	349	349	349	349	231
1983	30	0	0	0	0	349	349	349	349	349	349	349	150
1984	30	0	0	0	0	0	0	0	349	349	349	0	44
1985	349	349	349	349	349	349	0	0	0	0	0	0	105
1986	0	349	349	349	349	349	349	0	0	349	349	0	147
1987	349	349	349	349	21	0	0	0	0	0	0	0	86
1988	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	349	0	0	0	349	0	0	43
1990	0	349	349	349	0	0	0	0	0	0	0	0	64
1991	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum	0	0	0	0	0	0	0	0	0	0	0	0	0
69 yr-Avg	129	181	158	156	117	130	130	120	150	194	80	115	100
Maximum	349	349	349	349	349	349	349	349	349	349	349	349	234



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Table C-8. Deliveries to EBMUD, City, and County from American River for Alternative 3 Cumulative (cfs)

Water Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL (TAF)
1922	446	366	329	322	317	345	402	483	546	592	585	528	318
1923	446	366	329	322	317	345	402	483	546	592	585	528	318
1924	446	366	329	322	306	215	235	260	282	298	294	274	219
1925	249	225	213	210	211	345	402	483	546	592	585	528	277
1926	446	366	329	322	317	345	402	483	546	592	585	528	318
1927	446	366	329	322	317	345	402	483	546	592	585	528	318
1928	446	366	329	322	306	345	402	483	546	592	585	528	318
1929	446	366	329	322	317	345	402	483	546	592	585	528	318
1930	446	366	329	322	317	345	402	483	546	592	585	528	318
1931	446	366	329	322	317	215	235	260	282	298	294	274	219
1932	249	225	213	210	203	345	402	483	546	592	585	528	277
1933	446	366	329	322	317	345	402	483	546	592	585	528	318
1934	446	366	329	322	317	215	235	260	282	298	294	274	219
1935	249	225	213	210	211	345	402	483	546	592	585	528	277
1936	446	366	329	322	306	345	402	483	546	592	585	528	318
1937	446	366	329	322	317	345	402	483	546	592	585	528	318
1938	446	366	329	322	317	345	402	483	546	592	585	528	318
1939	446	366	329	322	317	215	235	260	282	298	294	274	219
1940	249	225	213	210	203	345	402	483	546	592	585	528	277
1941	446	366	329	322	317	345	402	483	546	592	585	528	318
1942	446	366	329	322	317	345	402	483	546	592	585	528	318
1943	446	366	329	322	317	345	402	483	546	592	585	528	318
1944	446	366	329	322	306	345	402	483	546	592	585	528	318
1945	446	366	329	322	317	345	402	483	546	592	585	528	318
1946	446	366	329	322	317	345	402	483	546	592	585	528	318
1947	446	366	329	322	317	345	402	483	546	592	585	528	318
1948	446	366	329	322	306	345	402	483	546	592	585	528	318
1949	446	366	329	322	317	345	402	483	546	592	585	528	318
1950	446	366	329	322	317	345	402	483	546	592	585	528	318
1951	446	366	329	322	317	345	402	483	546	592	585	528	318
1952	446	366	329	322	306	345	402	483	546	592	585	528	318
1953	446	366	329	322	317	345	402	483	546	592	585	528	318
1954	446	366	329	322	317	345	402	483	546	592	585	528	318
1955	446	366	329	322	317	345	402	483	546	592	585	528	318
1956	446	366	329	322	306	345	402	483	546	592	585	528	318
1957	446	366	329	322	317	345	402	483	546	592	585	528	318
1958	446	366	329	322	317	345	402	483	546	592	585	528	318
1959	446	366	329	322	317	215	235	260	282	298	294	274	219
1960	249	225	213	210	203	345	402	483	546	592	585	528	277
1961	446	366	329	322	317	215	235	260	282	298	294	274	219
1962	249	225	213	210	211	345	402	483	546	592	585	528	277
1963	446	366	329	322	317	345	402	483	546	592	585	528	318
1964	446	366	329	322	306	345	402	483	546	592	585	528	318
1965	446	366	329	322	317	345	402	483	546	592	585	528	318
1966	446	366	329	322	317	345	402	483	546	592	585	528	318
1967	446	366	329	322	317	345	402	483	546	592	585	528	318
1968	446	366	329	322	306	345	402	483	546	592	585	528	318
1969	446	366	329	322	317	345	402	483	546	592	585	528	318
1970	446	366	329	322	317	345	402	483	546	592	585	528	318
1971	446	366	329	322	317	345	402	483	546	592	585	528	318
1972	446	366	329	322	306	345	402	483	546	592	585	528	318
1973	446	366	329	322	317	345	402	483	546	592	585	528	318
1974	446	366	329	322	317	345	402	483	546	592	585	528	318
1975	446	366	329	322	317	345	402	483	546	592	585	528	318
1976	446	366	329	322	306	215	235	260	282	298	294	274	219
1977	249	225	213	210	211	215	235	260	282	298	294	274	179
1978	249	225	213	210	211	345	402	483	546	592	585	528	277
1979	446	366	329	322	317	345	402	483	546	592	585	528	318
1980	446	366	329	322	306	345	402	483	546	592	585	528	318
1981	446	366	329	322	317	345	402	483	546	592	585	528	318
1982	446	366	329	322	317	345	402	483	546	592	585	528	318
1983	446	366	329	322	317	345	402	483	546	592	585	528	318
1984	446	366	329	322	306	345	402	483	546	592	585	528	318
1985	446	366	329	322	317	345	402	483	546	592	585	528	318
1986	446	366	329	322	317	345	402	483	546	592	585	528	318
1987	446	366	329	322	317	215	235	260	282	298	294	274	219
1988	249	225	213	210	203	215	235	260	282	298	294	274	179
1989	249	225	213	210	211	345	402	483	546	592	585	528	277
1990	446	366	329	322	317	215	235	260	282	298	294	274	219
1991	249	225	213	210	211	345	402	483	546	592	585	528	277
Minimum	249	225	213	210	203	215	235	260	282	298	294	274	179
69 yr-Avg	415	344	310	304	298	324	376	448	505	546	540	488	296
Maximum	446	366	329	322	317	345	402	483	546	592	585	528	318

Note: Deliveries shown include the City's entire diversion from the American River made from the Fairbairn WTP.



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Table C-9. Deliveries to EBMUD, City, and County from American River for Full Use Alternative 3 (cfs)*

Water Year	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL (TAF)
1922	295	284	267	267	273	282	298	323	363	372	368	358	226
1923	295	284	267	267	273	282	298	323	363	372	368	358	226
1924	217	217	217	217	217	217	217	217	217	217	217	217	157
1925	295	284	267	267	273	282	298	323	363	372	368	358	226
1926	217	217	217	217	217	217	217	217	217	217	217	217	157
1927	295	284	267	267	273	282	298	323	363	372	368	358	226
1928	295	284	267	267	271	282	298	323	363	372	368	358	226
1929	217	217	217	217	217	217	217	217	217	217	217	217	157
1930	217	217	217	217	217	217	217	217	217	217	217	217	157
1931	217	217	217	217	217	217	217	217	217	217	217	217	157
1932	295	284	267	267	271	282	298	323	363	372	368	358	226
1933	217	217	217	217	217	217	217	217	217	217	217	217	157
1934	217	217	217	217	217	217	217	217	217	217	217	217	157
1935	295	284	267	267	273	282	298	323	363	372	368	358	226
1936	295	284	267	267	271	282	298	323	363	372	368	358	226
1937	295	284	267	267	273	282	298	323	363	372	368	358	226
1938	295	284	267	267	273	282	298	323	363	372	368	358	226
1939	217	217	217	217	217	217	217	217	217	217	217	217	157
1940	295	284	267	267	271	282	298	323	363	372	368	358	226
1941	295	284	267	267	273	282	298	323	363	372	368	358	226
1942	295	284	267	267	273	282	298	323	363	372	368	358	226
1943	295	284	267	267	273	282	298	323	363	372	368	358	226
1944	217	217	217	217	217	217	217	217	217	217	217	217	157
1945	295	284	267	267	273	282	298	323	363	372	368	358	226
1946	295	284	267	267	273	282	298	323	363	372	368	358	226
1947	217	217	217	217	217	217	217	217	217	217	217	217	157
1948	295	284	267	267	271	282	298	323	363	372	368	358	226
1949	217	217	217	217	217	217	217	217	217	217	217	217	157
1950	295	284	267	267	273	282	298	323	363	372	368	358	226
1951	295	284	267	267	273	282	298	323	363	372	368	358	226
1952	295	284	267	267	271	282	298	323	363	372	368	358	226
1953	295	284	267	267	273	282	298	323	363	372	368	358	226
1954	295	284	267	267	273	282	298	323	363	372	368	358	226
1955	217	217	217	217	217	217	217	217	217	217	217	217	157
1956	295	284	267	267	271	282	298	323	363	372	368	358	226
1957	295	284	267	267	273	282	298	323	363	372	368	358	226
1958	295	284	267	267	273	282	298	323	363	372	368	358	226
1959	217	217	217	217	217	217	217	217	217	217	217	217	157
1960	217	217	217	217	217	217	217	217	217	217	217	217	157
1961	217	217	217	217	217	217	217	217	217	217	217	217	157
1962	295	284	267	267	273	282	298	323	363	372	368	358	226
1963	295	284	267	267	273	282	298	323	363	372	368	358	226
1964	217	217	217	217	217	217	217	217	217	217	217	217	157
1965	295	284	267	267	273	282	298	323	363	372	368	358	226
1966	217	217	217	217	217	217	217	217	217	217	217	217	157
1967	295	284	267	267	273	282	298	323	363	372	368	358	226
1968	217	217	217	217	217	217	217	217	217	217	217	217	157
1969	295	284	267	267	273	282	298	323	363	372	368	358	226
1970	295	284	267	267	273	282	298	323	363	372	368	358	226
1971	295	284	267	267	273	282	298	323	363	372	368	358	226
1972	217	217	217	217	217	217	217	217	217	217	217	217	157
1973	295	284	267	267	273	282	298	323	363	372	368	358	226
1974	295	284	267	267	273	282	298	323	363	372	368	358	226
1975	295	284	267	267	273	282	298	323	363	372	368	358	226
1976	217	217	217	217	217	217	217	217	217	217	217	217	157
1977	217	217	217	217	217	217	217	217	217	217	217	217	157
1978	295	284	267	267	273	282	298	323	363	372	368	358	226
1979	295	284	267	267	273	282	298	323	363	372	368	358	226
1980	295	284	267	267	271	282	298	323	363	372	368	358	226
1981	217	217	217	217	217	217	217	217	217	217	217	217	157
1982	295	284	267	267	273	282	298	323	363	372	368	358	226
1983	295	284	267	267	273	282	298	323	363	372	368	358	226
1984	295	284	267	267	271	282	298	323	363	372	368	358	226
1985	217	217	217	217	217	217	217	217	217	217	217	217	157
1986	295	284	267	267	273	282	298	323	363	372	368	358	226
1987	217	217	217	217	217	217	217	217	217	217	217	217	157
1988	217	217	217	217	217	217	217	217	217	217	217	217	157
1989	295	284	267	267	273	282	298	323	363	372	368	358	226
1990	217	217	217	217	217	217	217	217	217	217	217	217	157
1991	217	217	217	217	217	217	217	217	217	217	217	217	157
Minimum	217	217	217	217	217	217	217	217	217	217	217	217	157
69 yr-Avg	265	258	248	248	251	257	267	282	307	312	310	304	200
Maximum	295	284	267	267	273	282	298	323	363	372	368	358	226

Note: * Deliveries shown represent the City's intake from the Fairbairn WTP only



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Table C-10. Comparison of Folsom Lake Storage for Each Alternative as Simulated by PROSIM

	OCT (TAF)	NOV (TAF)	DEC (TAF)	JAN (TAF)	FEB (TAF)	MAR (TAF)	APR (TAF)	MAY (TAF)	JUN (TAF)	JUL (TAF)	AUG (TAF)	SEP (TAF)
Existing Conditions												
Minimum	100	107	104	85	149	153	167	183	174	150	129	114
70-yr Avg	445	433	456	473	502	599	728	835	767	673	561	484
Maximum	600	574	575	575	575	680	800	975	975	975	834	674
Alternative 1												
Minimum	211	224	217	138	84	208	245	270	270	247	226	214
70-yr Avg	519	477	462	456	472	558	687	804	759	701	633	572
Maximum	669	574	575	575	575	680	800	975	975	975	827	661
Alternative 2												
Minimum	209	221	242	195	200	141	178	214	225	228	223	211
70-yr Avg	516	470	452	445	462	550	680	799	757	699	631	570
Maximum	670	574	575	575	575	680	800	975	975	975	827	661
Alternative 3												
Minimum	125	128	235	247	221	208	214	223	210	184	159	140
70-yr Avg	514	474	461	458	475	560	688	804	759	700	631	569
Maximum	667	574	575	575	575	680	800	975	975	975	827	661
Alternative 2 Cumulative												
Minimum	196	208	240	117	101	105	144	183	198	200	199	202
70-yr Avg	478	432	421	418	439	530	663	786	736	663	591	545
Maximum	600	574	575	575	575	680	800	975	975	975	808	650
Alternative 3 Cumulative												
Minimum	180	191	232	152	96	170	200	229	234	225	201	187
70-yr Avg	492	452	443	439	457	546	676	794	749	683	610	554
Maximum	600	574	575	575	575	680	800	975	975	975	808	650
Alternative 1 Minus Existing Conditions												
Minimum	-47	-92	-118	-217	-327	-250	-266	-348	-191	-209	-116	-13
70-yr Avg	74	44	7	-17	-30	-41	-41	-31	-7	28	72	89
Maximum	270	260	154.	114	101	109	132	155	240	233	275	244
Alternative 2 Minus Alternative 1												
Minimum	-61	-36	-56	-68	-68	-67	-67	-67	-63	-62	-62	-61
70-yr Avg	-3	-7	-10	-11	-10	-8	-6	-5	-3	-2	-2	-2
Maximum	37	96	156	199	223	207	191	175	169	168	137	108
Alternative 3 Minus Alternative 1												
Minimum	-88	-96	-109	-40	-29	-62	-62	-61	-60	-63	-67	-74
70-yr Avg	-5	-3	-1	2	3	2	1	0	0	-1	-2	-3
Maximum	31	91	150	193	217	200	185	169	144	143	142	114
Alternative 2 Cumulative Minus Existing Conditions												
Minimum	-100	-161	-220	-302	-388	-419	-361	-329	-224	-241	-195	-71
70-yr Avg	33	-1	-34	-55	-62	-69	-65	-49	-30	-10	30	61
Maximum	190	202	145	114	91	67	72	131	251	222	212	216
Alternative 3 Cumulative Minus Existing Conditions												
Minimum	-76	-119	-157	-217	-316	-315	-273	-325	-210	-216	-161	-36
70-yr Avg	47	19	-13	-34	-45	-54	-52	-41	-18	10	49	70
Maximum	251	234	136	105	90	98	89	131	251	243	254	244



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Table C-11. Comparison of Flows Below Nimbus for Each Alternative as Simulated by PROSIM

	OCT (cfs)	NOV (cfs)	DEC (cfs)	JAN (cfs)	FEB (cfs)	MAR (cfs)	APR (cfs)	MAY (cfs)	JUN (cfs)	JUL (cfs)	AUG (cfs)	SEP (cfs)	ANNUAL (TAF)
Existing Conditions													
Minimum	635	525	537	752	666	349	324	362	427	447	440	501	497
70-yr Avg	2039	2482	3416	4352	5123	3957	3549	3698	4244	3204	3246	2721	2531
Maximum	4263	17152	19640	21845	33090	17692	14739	10406	12606	6164	4918	4919	6350
Alternative 1													
Minimum	500	500	508	1000	1000	723	272	292	331	500	500	500	477
70-yr Avg	2219	2959	4000	4678	5301	4082	3455	3436	3703	2462	2380	2314	2467
Maximum	4944	17137	21842	21804	32428	17609	14626	10274	12446	5991	4873	4899	6296
Alternative 2													
Minimum	500	500	508	500	1000	723	272	292	331	500	500	500	477
70-yr Avg	2201	2913	3946	4628	5240	4041	3375	3405	3659	2442	2375	2313	2440
Maximum	4624	17137	21838	21804	32310	17609	14626	10274	12446	5991	4873	4899	6296
Alternative 3													
Minimum	717	657	729	652	1000	723	467	497	553	569	564	631	530
70-yr Avg	2218	2933	3970	4629	5274	4099	3469	3451	3704	2477	2399	2336	2465
Maximum	4944	17137	21842	21804	32428	17609	14626	10274	12446	5991	4873	4899	6296
Alternative 2 Cumulative													
Minimum	500	500	503	500	1000	723	257	271	292	500	500	500	472
70-yr Avg	2098	2723	3667	4376	4943	3757	3107	3074	3398	2285	2085	1705	2240
Maximum	4104	15723	20444	21661	29494	17092	14081	9694	11763	5310	4463	4057	5982
Alternative 3 Cumulative													
Minimum	538	500	581	555	1000	723	334	349	370	500	500	500	486
70-yr Avg	2149	2803	3801	4523	5138	3912	3291	3262	3469	2361	2190	1980	2340
Maximum	4309	16781	20967	21661	31322	17441	14430	10043	12112	5659	4812	4406	6132
Alternative 1 Minus Existing Conditions													
Minimum	-1763	-657	-450	-1224	-2125	-1500	-2042	-2493	-2741	-3118	-2678	-2065	-283
70-yr Avg	180	477	583	326	178	124	-94	-262	-541	-741	-866	-407	-64
Maximum	2257	1874	4204	2466	1636	1475	1180	1250	1255	1605	804	1505	164
Alternative 2 Minus Alternative 1													
Minimum	-700	-1000	-966	-711	-999	-736	-1356	-1000	-750	-625	-500	-702	-121
70-yr Avg	-18	-47	-53	-50	-61	-41	-80	-32	-44	-20	-5	-2	-27
Maximum	500	0	320	250	450	355	250	250	750	1	500	474	12
Alternative 3 Minus Alternative 1													
Minimum	-700	-1000	-963	-1778	-726	-9	-214	-37	-750	-126	-448	-404	-132
70-yr Avg	-1	-26	-29	-49	-27	18	14	15	2	15	20	21	-2
Maximum	291	157	221	0	0	1003	544	361	397	564	531	465	71
Alternative 2 Cumulative Minus Existing Conditions													
Minimum	-1763	-1698	-1729	-2113	-3597	-2195	-2810	-3095	-3419	-3418	-2702	-2699	-540
70-yr Avg	59	240	251	24	-180	-200	-441	-624	-846	-919	-1161	-1016	-291
Maximum	1417	1153	2827	1357	1430	1117	960	1219	1255	920	554	370	64
Alternative 3 Cumulative Minus Existing Conditions													
Minimum	-1763	-989	-1014	-1752	-2382	-1696	-2510	-2493	-3419	-3118	-2595	-2699	-447
70-yr Avg	110	320	385	171	15	-45	-257	-435	-775	-843	-1056	-741	-191
Maximum	1622	1558	3691	1744	1430	976	960	1250	1255	992	804	938	105



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Table C-12. Comparison of Flows Below Fairbairn WTP for Each Alternative as Simulated by PROSIM

	OCT (cfs)	NOV (cfs)	DEC (cfs)	JAN (cfs)	FEB (cfs)	MAR (cfs)	APR (cfs)	MAY (cfs)	JUN (cfs)	JUL (cfs)	AUG (cfs)	SEP (cfs)	ANNUAL (TAF)
Existing Conditions													
Minimum	495	441	500	721	567	250	188	188	188	188	188	281	384
70-yr Avg	1910	2402	3368	4319	5079	3878	3430	3518	4008	2945	2994	2496	2429
Maximum	4125	17132	19638	21872	33184	17715	14657	10221	12372	5905	4666	4701	6268
Alternative 1													
Minimum	378	456	500	906	888	620	188	188	188	219	225	281	393
70-yr Avg	2078	2866	3940	4632	5245	3991	3324	3241	3446	2183	2107	2067	2354
Maximum	4905	17103	21829	21820	32509	17619	14530	10072	12191	5709	4598	4657	6203
Alternative 2													
Minimum	378	396	500	412	888	620	188	188	188	219	225	281	393
70-yr Avg	2060	2819	3887	4583	5184	3951	3244	3209	3402	2163	2102	2065	2327
Maximum	4585	17103	21825	21820	32391	17619	14530	10072	12191	5709	4598	4657	6203
* Alternative 3													
Minimum	375	375	500	298	636	404	188	188	188	188	188	281	292
70-yr Avg	1919	2689	3775	4451	5086	3857	3176	3078	3246	1990	1922	1889	2230
Maximum	4765	16976	21716	21708	32392	17492	14387	9903	11984	5493	4385	4454	6089
Alternative 2 Cumulative													
Minimum	388	418	500	427	910	623	188	188	188	294	297	281	405
70-yr Avg	1793	2523	3515	4244	4813	3581	2861	2722	2985	1818	1625	1314	2032
Maximum	3868	15560	20319	21571	29483	16995	13842	9299	11307	4793	3953	3630	5772
* Alternative 3 Cumulative													
Minimum	375	375	500	327	755	467	188	188	188	188	188	281	340
70-yr Avg	1689	2451	3495	4237	4854	3583	2891	2757	2902	1739	1576	1436	2021
Maximum	3917	16465	20687	21417	31156	17189	14036	9493	11501	4986	4147	3824	5810
Alternative 1 Minus Existing Conditions													
Minimum	-1776	-671	-461	-1235	-2137	-1513	-2056	-2509	-2763	-3141	-2700	-2088	-295
70-yr Avg	168	464	573	314	166	113	-107	-277	-561	-762	-887	-429	-75
Maximum	2244	1860	4193	2455	1623	1462	1177	1234	1233	1583	781	1482	152
Alternative 2 Minus Alternative 1													
Minimum	-700	-1000	-966	-711	-999	-736	-1356	-1000	-750	-625	-500	-702	-121
70-yr Avg	-18	-47	-53	-50	-61	-41	-80	-32	-44	-20	-5	-2	-27
Maximum	500	0	320	250	450	355	250	250	750	1	500	474	12
Alternative 3 Minus Alternative 1													
Minimum	-916	-1217	-1179	-1999	-1000	-291	-357	-324	-957	-391	-664	-608	-289
70-yr Avg	-159	-176	-166	-181	-159	-134	-148	-163	-200	-193	-186	-178	-123
Maximum	-3	-62	0	-62	-61	876	401	192	180	348	318	248	-39
Alternative 2 Cumulative Minus Existing Conditions													
Minimum	-1973	-1840	-1852	-2231	-3701	-2316	-2966	-3305	-3641	-3676	-2923	-2907	-629
70-yr Avg	-118	121	147	-75	-266	-297	-569	-796	-1023	-1127	-1370	-1182	-396
Maximum	1207	1011	2704	1392	1325	997	804	1009	1033	661	295	161	39
Alternative 3 Cumulative Minus Existing Conditions													
Minimum	-2129	-1285	-1292	-2023	-2641	-1834	-2821	-2857	-3796	-3533	-2980	-3062	-645
70-yr Avg	-221	49	128	-81	-225	-295	-539	-761	-1105	-1206	-1419	-1060	-408
Maximum	1256	1262	3413	1472	1170	701	649	886	878	578	391	575	-33



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* Note: Deliveries to EBMUD and County are not added to PROSIM results; therefore, Fairbairn flow data are representative of conditions below I-S intake structure.

Table C-13. Comparison of Trinity Storage for Each Alternative as Simulated by PROSIM

	OCT (TAF)	NOV (TAF)	DEC (TAF)	JAN (TAF)	FEB (TAF)	MAR (TAF)	APR (TAF)	MAY (TAF)	JUN (TAF)	JUL (TAF)	AUG (TAF)	SEP (TAF)
Existing Conditions												
Minimum	423	434	456	447	448	565	659	713	693	565	514	482
70-yr Avg	1274	1265	1294	1350	1444	1517	1597	1630	1598	1478	1385	1310
Maximum	1850	1850	1850	1900	2000	2100	2300	2420	2447	2270	2150	1975
Alternative 1												
Minimum	406	395	392	395	403	508	559	522	490	471	454	440
70-yr Avg	1084	1083	1117	1173	1267	1341	1416	1383	1307	1212	1149	1102
Maximum	1850	1850	1850	1900	2000	2100	2214	2407	2447	2270	2150	1975
Alternative 2												
Minimum	401	390	387	390	397	503	549	524	492	473	456	442
70-yr Avg	1083	1082	1116	1172	1266	1340	1415	1382	1307	1212	1148	1101
Maximum	1850	1850	1850	1900	2000	2100	2214	2407	2447	2270	2150	1975
Alternative 3												
Minimum	397	386	382	386	393	483	543	524	492	472	456	441
70-yr Avg	1080	1079	1114	1170	1264	1338	1414	1381	1305	1210	1147	1101
Maximum	1850	1850	1850	1900	2000	2100	2214	2407	2447	2270	2150	1975
Alternative 2 Cumulative												
Minimum	414	403	400	403	410	510	546	522	490	471	454	440
70-yr Avg	1082	1081	1115	1172	1265	1339	1415	1381	1305	1211	1147	1101
Maximum	1850	1850	1850	1900	2000	2100	2214	2407	2447	2270	2150	1975
Alternative 3 Cumulative												
Minimum	414	403	400	403	410	515	552	522	490	471	454	440
70-yr Avg	1084	1083	1117	1173	1267	1341	1416	1383	1308	1214	1149	1103
Maximum	1850	1850	1850	1900	2000	2100	2214	2407	2447	2270	2150	1975
Alternative 1 Minus Existing Conditions												
Minimum	-426	-414	-430	-509	-533	-535	-532	-560	-572	-524	-498	-478
70-yr Avg	-190	-182	-177	-177	-176	-176	-181	-247	-290	-266	-236	-208
Maximum	45	106	97	85	74	62	56	52	2	0	1	18
Alternative 2 Minus Alternative 1												
Minimum	-37	-37	-36	-37	-36	-36	-36	-36	-36	-36	-36	-36
70-yr Avg	-1	-1	-1	-1	-1	-1	-2	-1	-1	-1	-1	-1
Maximum	15	15	15	15	15	15	15	15	15	15	15	15
Alternative 3 Minus Alternative 1												
Minimum	-99	-99	-87	-87	-87	-87	-87	-87	-87	-86	-86	-86
70-yr Avg	-4	-4	-4	-3	-3	-3	-2	-2	-2	-2	-2	-1
Maximum	20	20	20	20	20	20	20	20	20	20	20	20
Alternative 2 Cumulative Minus Existing Conditions												
Minimum	-438	-455	-472	-542	-553	-549	-546	-573	-586	-537	-512	-475
70-yr Avg	-191	-184	-179	-178	-178	-177	-183	-249	-292	-267	-238	-209
Maximum	47	85	76	64	53	41	56	31	0	11	27	44
Alternative 3 Cumulative Minus Existing Conditions												
Minimum	-430	-434	-452	-531	-547	-543	-540	-567	-579	-529	-506	-469
70-yr Avg	-189	-182	-177	-177	-177	-176	-181	-247	-290	-265	-236	-207
Maximum	47	85	76	64	53	41	56	31	0	11	27	44



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Table C-14. Comparison of Shasta Lake Storage for Each Alternative as Simulated by PROSIM

	OCT (TAF)	NOV (TAF)	DEC (TAF)	JAN (TAF)	FEB (TAF)	MAR (TAF)	APR (TAF)	MAY (TAF)	JUN (TAF)	JUL (TAF)	AUG (TAF)	SEP (TAF)
Existing Conditions												
Minimum	1193	1211	1355	1401	1439	2032	2045	1891	1672	1429	1191	1187
70-yr Avg	2810	2852	2947	3155	3393	3767	4083	4113	3887	3395	2949	2821
Maximum	3786	3252	3362	3725	4037	4552	4552	4552	4545	4229	3788	3774
Alternative 1												
Minimum	1165	1147	1195	1227	1264	1852	1977	1896	1667	1402	1217	1211
70-yr Avg	2702	2746	2861	3044	3268	3608	3933	3986	3760	3322	2861	2727
Maximum	3773	3252	3362	3695	4030	4552	4552	4552	4539	4216	3778	3772
Alternative 2												
Minimum	1156	1138	1187	1218	1255	1843	1959	1878	1650	1384	1199	1195
70-yr Avg	2701	2743	2857	3039	3263	3603	3926	3979	3752	3315	2856	2722
Maximum	3773	3252	3362	3695	4030	4552	4552	4552	4539	4216	3778	3772
Alternative 3												
Minimum	1149	1130	1180	1211	1248	1836	1944	1866	1640	1367	1182	1156
70-yr Avg	2694	2737	2854	3037	3260	3600	3924	3976	3748	3308	2844	2711
Maximum	3773	3252	3362	3695	4030	4552	4552	4552	4539	4216	3778	3772
Alternative 2 Cumulative												
Minimum	1178	1160	1208	1239	1276	1864	1981	1901	1677	1412	1227	1223
70-yr Avg	2706	2750	2864	3047	3269	3608	3932	3986	3760	3323	2864	2731
Maximum	3773	3252	3362	3695	4030	4552	4552	4552	4539	4216	3778	3772
Alternative 3 Cumulative												
Minimum	1178	1160	1208	1239	1276	1865	1943	1864	1640	1376	1191	1187
70-yr Avg	2706	2749	2865	3047	3269	3609	3933	3987	3760	3324	2865	2730
Maximum	3773	3252	3362	3695	4030	4552	4552	4552	4539	4216	3778	3772
Alternative 1 Minus Existing Conditions												
Minimum	-728	-587	-617	-871	-1042	-869	-829	-782	-836	-856	-909	-935
70-yr Avg	-108	-107	-86	-111	-125	-159	-151	-127	-128	-73	-88	-94
Maximum	444	490	549	514	365	324	300	300	295	417	375	381
Alternative 2 Minus Alternative 1												
Minimum	-126	-163	-202	-247	-280	-279	-279	-278	-270	-269	-268	-283
70-yr Avg	-2	-3	-4	-5	-5	-5	-6	-7	-8	-7	-5	-5
Maximum	131	101	70	10	10	10	10	10	38	10	162	162
Alternative 3 Minus Alternative 1												
Minimum	-126	-168	-223	-279	-322	-351	-370	-378	-369	-367	-391	-390
70-yr Avg	-8	-8	-7	-7	-8	-8	-9	-10	-11	-14	-16	-16
Maximum	30	30	30	30	40	56	50	31	30	30	30	30
Alternative 2 Cumulative Minus Existing Conditions												
Minimum	-728	-651	-680	-940	-1113	-869	-792	-777	-836	-856	-909	-935
70-yr Avg	-104	-103	-82	-109	-124	-158	-151	-126	-127	-72	-84	-90
Maximum	463	509	567	560	365	324	300	300	302	424	394	382
Alternative 3 Cumulative Minus Existing Conditions												
Minimum	-728	-627	-657	-911	-1091	-869	-791	-777	-836	-856	-909	-935
70-yr Avg	-104	-103	-81	-108	-124	-158	-150	-126	-128	-71	-84	-91
Maximum	451	498	556	553	365	309	270	270	298	420	385	381



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Table C-15. Comparison of Sacramento River Flows at Keswick for Each Alternative as Simulated by PROSIM

	OCT (cfs)	NOV (cfs)	DEC (cfs)	JAN (cfs)	FEB (cfs)	MAR (cfs)	APR (cfs)	MAY (cfs)	JUN (cfs)	JUL (cfs)	AUG (cfs)	SEP (cfs)	ANNUAL (TAF)
Existing Conditions													
Minimum	3250	3250	3250	3250	3250	3250	3250	4297	6103	7867	6592	4500	3713
70-yr Avg	5470	6162	8352	8894	11086	8694	8055	9299	10791	13466	11642	6477	6541
Maximum	7021	29268	30507	52792	53810	45943	32030	16395	16047	18440	14393	7999	12832
Alternative 1													
Minimum	3250	3250	3250	3250	3250	3250	3250	4381	6458	6754	5985	4500	3440
70-yr Avg	5400	5829	7687	8983	11025	8943	7479	8576	10372	12063	11521	6266	6284
Maximum	6993	27943	26983	52375	53810	45943	31380	15745	14402	16242	14393	8633	12464
Alternative 2													
Minimum	3250	3250	3250	3250	3250	3250	3250	4381	6327	6754	5985	4500	3481
70-yr Avg	5424	5846	7706	9007	11020	8948	7502	8575	10381	12055	11483	6263	6288
Maximum	6993	27943	26983	52375	53810	45943	31380	15745	14402	16242	14393	8628	12464
Alternative 3													
Minimum	3250	3250	3250	3250	3250	3250	3250	4381	6327	6754	6036	4500	3483
70-yr Avg	5402	5820	7669	8984	11037	8937	7481	8579	10405	12113	11545	6265	6289
Maximum	6993	27943	26983	52375	53810	45943	31380	15745	14402	16318	14393	8685	12464
Alternative 2 Cumulative													
Minimum	3250	3250	3250	3250	3250	3250	3250	4381	6327	6754	5985	4500	3422
70-yr Avg	5427	5825	7697	9001	11046	8951	7487	8573	10372	12044	11480	6263	6285
Maximum	6993	27943	26983	52375	53810	45943	31380	15745	14402	16110	14393	8529	12464
Alternative 3 Cumulative													
Minimum	3250	3250	3250	3250	3250	3250	3250	4381	6541	6754	5985	4500	3467
70-yr Avg	5419	5834	7686	9004	11058	8947	7473	8564	10385	12032	11487	6277	6285
Maximum	6993	27943	26983	52375	53810	45943	31380	15745	14402	16178	14393	8601	12464
Alternative 1 Minus Existing Conditions													
Minimum	-3493	-8468	-6298	-4809	-8223	-3196	-6104	-6047	-4098	-5860	-4512	-1703	-984
70-yr Avg	-70	-333	-665	89	-61	249	-576	-722	-419	-1402	-122	-211	-258
Maximum	2198	3533	1578	2595	2538	2250	2250	407	2333	2037	2838	977	512
Alternative 2 Minus Alternative 1													
Minimum	-22	-1	-83	-175	-545	-147	-43	-92	-807	-976	-2639	-192	-162
70-yr Avg	24	17	19	24	-5	5	23	-1	9	-8	-37	-3	4
Maximum	1087	621	642	1143	584	500	501	39	750	565	48	0	213
Alternative 3 Minus Alternative 1													
Minimum	-530	-265	-390	-250	-250	-250	-462	-923	-131	-93	-184	-346	-78
70-yr Avg	2	-9	-18	1	12	-6	2	2	33	49	24	-1	6
Maximum	1214	706	713	809	653	250	159	810	465	319	649	248	239
Alternative 2 Cumulative Minus Existing Conditions													
Minimum	-3493	-8468	-6298	-3937	-8223	-3196	-6566	-5686	-3493	-6129	-4512	-1658	-967
70-yr Avg	-43	-337	-655	108	-40	257	-568	-726	-419	-1421	-162	-213	-256
Maximum	2150	3533	1578	2595	3364	2250	2250	554	2209	1905	2288	1180	512
Alternative 3 Cumulative Minus Existing Conditions													
Minimum	-3493	-8468	-6298	-3001	-7263	-3196	-6566	-5686	-3512	-6060	-4512	-1703	-960
70-yr Avg	-51	-328	-667	111	-28	253	-582	-734	-407	-1433	-155	-199	-256
Maximum	2200	3533	1578	2595	3225	2250	2250	407	2277	1973	2468	1230	512



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Table C-16. Comparison of Sacramento River Flows at Freeport for Each Alternative as Simulated by PROSIM

	OCT (cfs)	NOV (cfs)	DEC (cfs)	JAN (cfs)	FEB (cfs)	MAR (cfs)	APR (cfs)	MAY (cfs)	JUN (cfs)	JUL (cfs)	AUG (cfs)	SEP (cfs)	ANNUAL (TAF)
Existing Conditions													
Minimum	6316	6239	8635	10326	10270	9894	7186	7921	6712	7733	6998	7646	6585
70-yr Avg	11979	15948	25221	31321	37815	32300	24224	19878	17585	16719	15980	15327	15898
Maximum	30521	60887	71691	72322	83522	69690	71856	52331	49029	26287	22339	22229	32109
Alternative 1													
Minimum	6233	6439	7833	9509	10979	9717	6269	7158	7149	7402	5935	7498	6097
70-yr Avg	12000	16222	25603	31663	38357	33138	24004	18974	16481	14569	15030	14417	15663
Maximum	34485	61126	71661	72516	83797	69621	71788	52145	48603	25575	21788	21826	31894
Alternative 2													
Minimum	6227	6439	7786	9428	10979	9717	6269	7070	7149	7403	5933	7496	6058
70-yr Avg	12001	16193	25561	31627	38290	33099	23954	18937	16447	14556	14978	14421	15639
Maximum	34165	61126	71661	72516	83779	69621	71788	52145	48603	25575	21788	21826	31896
Alternative 3													
Minimum	5902	6180	7567	9268	10594	9622	6188	6898	6966	7220	5788	7427	5951
70-yr Avg	11824	15973	25429	31441	38112	32963	23832	18781	16303	14438	14871	14280	15529
Maximum	34345	61003	71605	72466	83789	69546	71703	51976	48396	25358	21575	21622	31786
Alternative 2 Cumulative													
Minimum	6089	6310	7779	9346	10845	9663	6377	7001	7094	7174	5947	7415	6022
70-yr Avg	11694	15725	25202	31148	37776	32636	23664	18682	16306	14549	14829	14089	15413
Maximum	33362	60481	71504	72371	82920	69062	71225	51667	48114	25045	21443	20910	31554
Alternative 3 Cumulative													
Minimum	6050	5725	7586	9291	10685	9642	6377	7002	6654	7147	5862	7327	5971
70-yr Avg	11599	15692	25192	31173	37825	32650	23682	18711	16251	14453	14781	14140	15403
Maximum	33411	60363	71427	72302	83535	69317	71480	51861	48308	25238	21637	21104	31596
Alternative 1 Minus Existing Conditions													
Minimum	-3813	-4617	-3422	-8048	-5024	-2428	-4114	-6605	-5411	-8633	-6133	-3361	-1551
70-yr Avg	21	274	382	342	542	838	-220	-904	-1105	-2150	-950	-910	-235
Maximum	3964	5489	3541	3621	8139	14191	2564	1873	2684	1737	2697	1042	793
Alternative 2 Minus Alternative 1													
Minimum	-700	-501	-500	-500	-1090	-736	-1356	-649	-750	-716	-3090	-702	-255
70-yr Avg	1	-29	-42	-36	-67	-40	-50	-37	-33	-13	-52	4	-24
Maximum	607	500	500	250	450	355	622	250	114	555	503	1818	123
Alternative 3 Minus Alternative 1													
Minimum	-571	-2024	-927	-2094	-2318	-873	-722	-1092	-974	-1951	-696	-787	-325
70-yr Avg	-176	-249	-175	-222	-245	-176	-172	-193	-178	-131	-159	-137	-133
Maximum	497	122	328	138	-8	876	13	488	466	822	486	815	50
Alternative 2 Cumulative Minus Existing Conditions													
Minimum	-4042	-9775	-4037	-8183	-8115	-4139	-5474	-8139	-5277	-8588	-6099	-3343	-1787
70-yr Avg	-285	-223	-19	-173	-39	336	-560	-1196	-1280	-2170	-1152	-1238	-485
Maximum	2841	5304	3967	3259	3375	14100	2343	1279	2101	1774	2654	978	393
Alternative 3 Cumulative Minus Existing Conditions													
Minimum	-4198	-6838	-3644	-8286	-6942	-4293	-5629	-7258	-5537	-8720	-6194	-3457	-1833
70-yr Avg	-380	-256	-30	-148	9	349	-542	-1166	-1334	-2266	-1200	-1187	-495
Maximum	2889	5151	3505	3104	3221	13945	2220	1699	1972	1537	2534	913	409



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Table C-17. Comparison of Oroville Storage for Each Alternative as Simulated by PROSIM

	OCT (TAF)	NOV (TAF)	DEC (TAF)	JAN (TAF)	FEB (TAF)	MAR (TAF)	APR (TAF)	MAY (TAF)	JUN (TAF)	JUL (TAF)	AUG (TAF)	SEP (TAF)
Existing Conditions												
Minimum	903	886	791	900	1104	1142	1221	1165	1093	983	924	894
70-yr Avg	2107	2143	2194	2329	2473	2624	2867	2977	2875	2577	2302	2113
Maximum	3163	3163	3163	3163	3163	3163	3470	3538	3538	3450	3325	3200
Alternative 1												
Minimum	914	933	997	980	767	1150	1321	1390	1255	993	893	785
70-yr Avg	2087	2137	2194	2348	2496	2654	2908	3019	2911	2589	2284	2088
Maximum	3163	3163	3163	3163	3163	3163	3470	3538	3538	3450	3325	3200
Alternative 2												
Minimum	920	952	1003	972	760	1144	1315	1396	1250	988	889	762
70-yr Avg	2089	2139	2196	2350	2498	2656	2911	3022	2914	2590	2286	2090
Maximum	3163	3163	3163	3163	3163	3163	3470	3538	3538	3450	3325	3200
Alternative 3												
Minimum	759	796	845	982	766	1150	1321	1358	1220	925	798	648
70-yr Avg	2047	2099	2155	2313	2470	2630	2884	2994	2883	2557	2248	2047
Maximum	3163	3163	3163	3163	3163	3163	3470	3538	3538	3450	3325	3200
Alternative 2 Cumulative												
Minimum	856	859	910	996	783	1166	1323	1308	1210	1007	904	778
70-yr Avg	2025	2081	2137	2300	2463	2627	2882	2991	2883	2555	2243	2026
Maximum	3163	3163	3163	3163	3163	3163	3470	3538	3538	3450	3325	3200
Alternative 3 Cumulative												
Minimum	852	856	907	953	736	1120	1262	1247	1170	958	854	717
70-yr Avg	2031	2086	2140	2302	2466	2629	2883	2993	2883	2556	2245	2032
Maximum	3163	3163	3163	3163	3163	3163	3470	3538	3538	3450	3325	3200
Alternative 1 Minus Existing Conditions												
Minimum	-525	-622	-783	-972	-1243	-1006	-684	-556	-586	-524	-496	-523
70-yr Avg	-20	-6	-0	19	23	30	42	42	36	12	-17	-25
Maximum	540	515	515	615	625	621	609	609	592	533	505	557
Alternative 2 Minus Alternative 1												
Minimum	-79	-79	-79	-79	-56	-56	-56	-56	-55	-54	-55	-118
70-yr Avg	2	2	2	2	2	2	2	2	2	1	2	1
Maximum	48	48	48	48	48	48	47	47	47	47	47	48
Alternative 3 Minus Alternative 1												
Minimum	-216	-217	-231	-231	-207	-207	-207	-206	-206	-211	-221	-212
70-yr Avg	-40	-38	-39	-36	-26	-24	-25	-25	-28	-32	-36	-41
Maximum	98	98	98	97	98	97	97	97	58	107	101	98
Alternative 2 Cumulative Minus Existing Conditions												
Minimum	-520	-608	-768	-957	-1227	-990	-668	-540	-571	-509	-485	-514
70-yr Avg	-83	-62	-57	-30	-10	3	15	14	7	-22	-59	-88
Maximum	314	295	403	587	585	582	581	581	496	447	351	336
Alternative 3 Cumulative Minus Existing Conditions												
Minimum	-541	-640	-809	-1000	-1274	-1037	-715	-586	-619	-559	-535	-515
70-yr Avg	-76	-58	-54	-28	-7	5	17	15	8	-20	-57	-81
Maximum	418	399	399	539	538	535	534	534	515	438	398	440



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Table C-18. Comparison of Feather River Flows at Nicholas for Each Alternative as Simulated by PROSIM

	OCT (cfs)	NOV (cfs)	DEC (cfs)	JAN (cfs)	FEB (cfs)	MAR (cfs)	APR (cfs)	MAY (cfs)	JUN (cfs)	JUL (cfs)	AUG (cfs)	SEP (cfs)	ANNUAL (TAF)
Existing Conditions													
Minimum	1567	985	900	2380	1200	750	1709	1334	1198	1253	1081	1414	1736
70-yr Avg	3183	4097	7589	11914	14505	14504	9499	7151	6082	5561	5160	5387	5689
Maximum	10732	23069	49987	65232	70596	60388	51647	34954	22147	9864	9637	8382	14910
Alternative 1													
Minimum	1611	1006	900	2504	1200	750	1800	1274	1288	1081	1145	1973	1675
70-yr Avg	3187	3868	7499	11554	14411	14498	9512	7309	6312	6022	5674	5574	5737
Maximum	10825	23124	49990	65235	63004	60383	51751	35170	22352	10643	9803	8256	14900
Alternative 2													
Minimum	1611	1006	900	2504	1200	750	1800	1274	1288	1081	1142	1973	1662
70-yr Avg	3183	3869	7493	11560	14405	14497	9518	7305	6314	6037	5664	5583	5737
Maximum	10825	23124	49990	65235	63006	60383	51751	35170	22352	10643	9798	8233	14900
Alternative 3													
Minimum	1611	1006	900	2504	1200	750	1800	1274	1288	1081	1150	1973	1693
70-yr Avg	3199	3827	7515	11504	14234	14478	9516	7319	6358	6093	5735	5671	5739
Maximum	10825	23124	49990	65235	62565	60383	51751	35170	22352	10685	9826	8348	14900
Alternative 2 Cumulative													
Minimum	1611	1006	900	2504	1200	750	1800	1274	1288	1081	1128	1973	1672
70-yr Avg	3187	3758	7513	11423	14120	14403	9510	7338	6319	6114	5793	5933	5738
Maximum	10825	23124	49990	65235	61633	60383	51751	35170	22352	10614	9816	8389	14900
Alternative 3 Cumulative													
Minimum	1611	1006	900	2504	1200	750	1800	1274	1288	1081	1150	1973	1686
70-yr Avg	3205	3792	7534	11444	14114	14416	9509	7340	6331	6106	5785	5849	5739
Maximum	10825	23124	49990	65235	61755	60383	51751	35170	22352	10790	9844	8502	14900
Alternative 1 Minus Existing Conditions													
Minimum	-1282	-7180	-4907	-3845	-7592	-2432	-1767	-763	-1716	-3171	-2184	-1561	-585
70-yr Avg	4	-229	-89	-360	-94	-5	13	158	230	461	514	187	49
Maximum	1016	5296	3669	1881	5744	3414	1733	2140	1781	4656	5121	2668	742
Alternative 2 Minus Alternative 1													
Minimum	-643	-112	-367	-441	-918	-270	-143	-332	-92	-404	-251	-368	-63
70-yr Avg	-4	1	-6	6	-7	-1	6	-5	2	15	-9	8	0
Maximum	425	158	205	776	747	210	623	351	241	657	137	1345	127
Alternative 3 Minus Alternative 1													
Minimum	-379	-1896	-512	-885	-3591	-747	-487	-369	-69	-1735	-328	-259	-174
70-yr Avg	12	-41	16	-51	-177	-20	4	9	46	71	61	97	2
Maximum	558	237	440	316	74	639	183	136	768	1038	489	708	169
Alternative 2 Cumulative Minus Existing Conditions													
Minimum	-1590	-7966	-6621	-5141	-8963	-4208	-1655	-600	-1611	-2882	-1777	-1561	-479
70-yr Avg	5	-339	-75	-491	-385	-100	11	187	237	553	633	546	49
Maximum	881	651	3239	2022	2791	3414	1088	2163	1882	3693	5758	4038	708
Alternative 3 Cumulative Minus Existing Conditions													
Minimum	-1428	-7845	-6453	-4967	-8841	-3627	-2081	-570	-1716	-3049	-1698	-1561	-566
70-yr Avg	22	-306	-55	-470	-391	-87	10	189	249	545	625	461	50
Maximum	948	2070	3669	1637	2894	3414	1100	2187	1854	3677	5792	3425	663



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Table C-19. Comparison of Total Delta Inflow for Each Alternative as Simulated by PROSIM

	OCT (cfs)	NOV (cfs)	DEC (cfs)	JAN (cfs)	FEB (cfs)	MAR (cfs)	APR (cfs)	MAY (cfs)	JUN (cfs)	JUL (cfs)	AUG (cfs)	SEP (cfs)	ANNUAL (TAF)
Existing Conditions													
Minimum	7865	8601	10388	13201	13543	13416	9817	9494	8309	8732	7987	8536	8262
70-yr Avg	15176	21563	35803	49281	62107	52981	36919	28180	23145	19991	18392	17865	22911
Maximum	39108	100578	168312	220230	269368	279705	160805	102265	95104	47606	32992	33417	72501
Alternative 1													
Minimum	7717	8628	10520	11323	14323	12177	8727	8912	8814	8726	6995	9212	7830
70-yr Avg	15157	21717	36060	49574	61944	54019	37061	27591	22269	17930	17707	17107	22713
Maximum	43412	101197	168188	218666	250137	279042	161163	100765	94913	46563	32823	32887	71931
Alternative 2													
Minimum	7711	8628	10564	11430	14323	12178	8727	8912	8815	8727	6993	9210	7824
70-yr Avg	15168	21698	36070	49600	61991	54019	37032	27611	22260	17926	17663	17120	22714
Maximum	43091	101197	168188	218666	250180	278945	161163	100765	94913	46563	32823	32887	71925
Alternative 3													
Minimum	7601	8619	10478	11430	14302	12187	8739	8894	8755	8665	6969	9264	7808
70-yr Avg	15124	21622	36063	49520	61815	53998	37016	27534	22233	17931	17680	17102	22684
Maximum	43477	101177	168188	218666	249697	278962	161127	100702	94820	46461	32722	32795	71893
Alternative 2 Cumulative													
Minimum	7634	8097	10618	11322	14242	12183	8844	9257	8844	8751	7059	9117	7825
70-yr Avg	14981	21314	35745	49147	61379	53575	36792	27434	22183	18010	17604	16851	22526
Maximum	42446	100639	168005	218478	246461	278251	160523	100362	94490	46127	32570	32035	71626
Alternative 3 Cumulative													
Minimum	7687	7554	10476	11268	14249	12242	8920	9080	8482	8730	7038	8880	7821
70-yr Avg	14974	21368	35817	49261	61457	53664	36869	27497	22185	17978	17621	16966	22565
Maximum	42679	100598	167937	218410	248174	278662	160794	100629	94749	46385	32829	32294	71727
Alternative 1 Minus Existing Conditions													
Minimum	-3564	-8338	-11116	-9990	-19232	-5544	-4280	-7164	-4832	-7873	-4941	-3027	-1265
70-yr Avg	-19	154	257	293	-163	1038	142	-588	-876	-2061	-685	-758	-197
Maximum	4304	5610	3823	3784	8641	20175	3297	2333	2592	1718	2688	1125	873
Alternative 2 Minus Alternative 1													
Minimum	-700	-501	-500	-441	-1315	-694	-1356	-649	-750	-716	-3090	-702	-255
70-yr Avg	12	-19	9	26	47	-1	-29	20	-9	-4	-44	12	1
Maximum	701	500	994	1589	1892	921	622	520	427	555	503	1818	295
Alternative 3 Minus Alternative 1													
Minimum	-415	-1916	-876	-1888	-3587	-784	-616	-986	-684	-1837	-502	-642	-208
70-yr Avg	-32	-96	3	-54	-129	-21	-45	-57	-36	1	-27	-5	-30
Maximum	709	230	1153	1264	1251	1337	192	674	592	922	829	923	177
Alternative 2 Cumulative Minus Existing Conditions													
Minimum	-3726	-10497	-13876	-9992	-22908	-8437	-4602	-8115	-4621	-7728	-4862	-4136	-1441
70-yr Avg	-194	-250	-58	-134	-728	594	-127	-746	-961	-1981	-789	-1014	-384
Maximum	3338	5531	4330	3534	3839	20198	3168	2454	2132	1850	2702	1031	655
Alternative 3 Cumulative Minus Existing Conditions													
Minimum	-3827	-10036	-12575	-10045	-21194	-7473	-4681	-7654	-4816	-7795	-4892	-3516	-1433
70-yr Avg	-202	-195	13	-20	-650	683	-50	-683	-959	-2013	-772	-899	-346
Maximum	3572	5459	3954	3429	3763	20124	3282	2549	2014	1677	2688	1130	684



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Table C-20. Comparison of Total Delta Outflow for Each Alternative as Simulated by PROSIM

	OCT (cfs)	NOV (cfs)	DEC (cfs)	JAN (cfs)	FEB (cfs)	MAR (cfs)	APR (cfs)	MAY (cfs)	JUN (cfs)	JUL (cfs)	AUG (cfs)	SEP (cfs)	ANNUAL (TAF)
Existing Conditions													
Minimum	3350	4126	4770	5445	8237	7606	6023	5579	4000	4001	3415	3050	3808
70-yr Avg	5438	10924	23260	37359	50887	42800	27774	19389	12665	7645	6445	6286	15029
Maximum	23248	87934	158585	213598	254951	270969	148333	89188	79728	31858	18498	19710	63723
Alternative 1													
Minimum	3117	4289	4674	4948	8237	7355	5743	5238	4000	4001	3415	3114	3745
70-yr Avg	5326	10753	23097	37258	50678	43580	27935	18950	12584	7153	6217	5751	14934
Maximum	27656	88597	156821	210726	236776	270037	149667	87634	79431	30707	18253	19147	62864
Alternative 2													
Minimum	3117	4222	4655	4952	8237	7355	5743	5238	4000	4001	3415	3197	3739
70-yr Avg	5319	10742	23122	37286	50680	43598	27913	18975	12587	7152	6204	5751	14936
Maximum	27335	88597	156821	210726	236818	269940	149667	87634	79431	30707	18253	19147	62858
Alternative 3													
Minimum	3011	4121	4620	4952	8237	7331	5746	5086	4000	4001	3415	3198	3730
70-yr Avg	5306	10680	23078	37198	50476	43521	27895	18902	12566	7141	6203	5743	14900
Maximum	27721	88578	156821	210708	235915	269957	149631	87571	79338	30604	18152	19056	62826
Alternative 2 Cumulative													
Minimum	3510	4144	4677	4925	8237	7360	5747	5495	4000	4001	3415	3008	3740
70-yr Avg	5292	10445	22781	36851	49980	43131	27692	18831	12512	7127	6137	5576	14759
Maximum	26690	88039	156638	210143	232300	269246	149027	87231	79008	30270	18000	18296	62558
Alternative 3 Cumulative													
Minimum	3356	4142	4619	4911	8237	7331	5750	5363	4000	4001	3415	3197	3734
70-yr Avg	5277	10508	22862	36941	50103	43217	27785	18874	12547	7147	6167	5662	14803
Maximum	26924	87998	156570	210255	233927	269657	149298	87498	79267	30528	18259	18555	62659
Alternative 1 Minus Existing Conditions													
Minimum	-2148	-8266	-10758	-6985	-18175	-7059	-3002	-8447	-1699	-3589	-2520	-3060	-991
70-yr Avg	-112	-171	-163	-101	-209	781	161	-439	-82	-492	-228	-536	-95
Maximum	4408	4729	3095	5516	8362	15393	3506	1316	1100	743	970	598	844
Alternative 2 Minus Alternative 1													
Minimum	-500	-328	-350	-432	-1315	-477	-985	-323	-488	-116	-800	-252	-55
70-yr Avg	-7	-11	25	28	2	17	-22	24	4	-0	-14	1	3
Maximum	700	141	994	1590	1892	1368	622	520	277	134	199	458	335
Alternative 3 Minus Alternative 1													
Minimum	-354	-1916	-876	-1888	-4059	-814	-616	-986	-108	-539	-160	-270	-266
70-yr Avg	-20	-73	-19	-60	-202	-59	-40	-48	-18	-12	-14	-8	-34
Maximum	759	66	1153	1264	1252	1337	193	197	217	203	211	505	144
Alternative 2 Cumulative Minus Existing Conditions													
Minimum	-2383	-10425	-13518	-6890	-22651	-10029	-5212	-9398	-2402	-4058	-2582	-4169	-1410
70-yr Avg	-145	-480	-479	-509	-907	332	-82	-558	-153	-518	-308	-711	-270
Maximum	3442	4475	2606	3799	4653	15416	2735	1397	1548	702	984	296	618
Alternative 3 Cumulative Minus Existing Conditions													
Minimum	-2455	-9964	-12217	-4973	-21024	-9114	-5291	-8937	-1945	-3800	-2605	-3549	-1248
70-yr Avg	-161	-416	-398	-418	-784	418	11	-515	-119	-498	-279	-624	-226
Maximum	3676	4678	2476	4968	5188	15341	2629	1344	1288	640	970	303	586



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Table C-21. Comparison of SWP Deliveries for Each Alternative as Simulated by PROSIM

	OCT (TAF)	NOV (TAF)	DEC (TAF)	JAN (TAF)	FEB (TAF)	MAR (TAF)	APR (TAF)	MAY (TAF)	JUN (TAF)	JUL (TAF)	AUG (TAF)	SEP (TAF)	ANNUAL (TAF)
Existing Conditions													
Minimum	31	27	27	20	23	27	33	45	59	61	60	44	1443
70-yr Avg	226	196	196	146	166	194	230	319	411	426	419	312	3242
Maximum	277	241	240	179	204	240	285	395	508	526	518	386	3998
Alternative 1													
Minimum	63	54	53	40	46	54	65	89	114	118	116	87	1379
70-yr Avg	242	210	206	154	178	207	244	337	429	444	437	330	3417
Maximum	297	258	252	190	219	256	303	417	531	550	542	408	4222
Alternative 2													
Minimum	63	54	53	40	46	54	65	89	114	118	116	87	1379
70-yr Avg	242	210	206	154	178	207	244	337	429	444	437	330	3417
Maximum	297	258	252	190	219	256	303	417	531	550	542	408	4222
Alternative 3													
Minimum	63	54	53	40	46	54	65	89	114	118	116	87	1379
70-yr Avg	242	210	206	155	178	207	245	337	429	444	438	330	3422
Maximum	297	258	252	190	219	256	303	417	531	550	542	408	4222
Alternative 2 Cumulative													
Minimum	63	54	53	40	46	54	65	89	114	118	116	87	1379
70-yr Avg	242	210	206	154	178	207	244	337	429	444	437	330	3417
Maximum	297	258	252	190	219	256	303	417	531	550	542	408	4222
Alternative 3 Cumulative													
Minimum	48	42	41	31	35	42	50	68	88	91	89	67	1379
70-yr Avg	242	209	205	154	178	206	244	336	428	443	436	329	3411
Maximum	297	258	252	190	219	256	303	417	531	550	542	408	4222
Alternative 1 Minus Existing Conditions													
Minimum	-35	-31	-32	-23	-26	-31	-37	-52	-69	-71	-70	-51	-339
70-yr Avg	16	13	10	8	12	12	14	18	18	18	19	17	175
Maximum	52	45	42	32	38	44	51	70	87	90	89	69	588
Alternative 2 Minus Alternative 1													
Minimum	0	0	0	0	0	0	0	0	0	0	0	0	0
70-yr Avg	0	0	0	0	0	0	0	0	0	0	0	0	0
Maximum	0	0	0	0	0	0	0	0	0	0	0	0	0
Alternative 3 Minus Alternative 1													
Minimum	-15	-13	-13	-9	-11	-13	-15	-20	-26	-27	-26	-20	-147
70-yr Avg	0	0	0	0	0	0	0	1	1	1	1	1	-0
Maximum	15	13	13	10	11	13	15	21	26	27	27	20	150
Alternative 2 Cumulative Minus Existing Conditions													
Minimum	-35	-31	-32	-23	-26	-31	-37	-52	-69	-71	-70	-51	-339
70-yr Avg	16	13	10	8	12	12	14	18	18	18	19	17	175
Maximum	57	49	45	35	42	48	56	76	92	95	95	74	596
Alternative 3 Cumulative Minus Existing Conditions													
Minimum	-35	-31	-32	-23	-26	-31	-37	-52	-69	-71	-70	-51	-339
70-yr Avg	16	13	10	8	12	12	14	17	17	17	18	17	170
Maximum	47	40	39	29	34	40	47	65	82	84	83	63	539



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Table C-22. Comparison of CVP South of Delta Deliveries for Each Alternative as Simulated by PROSIM

	OCT (TAF)	NOV (TAF)	DEC (TAF)	JAN (TAF)	FEB (TAF)	MAR (TAF)	APR (TAF)	MAY (TAF)	JUN (TAF)	JUL (TAF)	AUG (TAF)	SEP (TAF)	ANNUAL (TAF)
Existing Conditions													
Minimum	92	49	24	26	46	83	119	141	166	184	170	106	1441
70-yr Avg	186	104	84	117	128	190	264	311	393	455	386	209	2826
Maximum	210	118	101	143	151	221	305	358	457	533	448	237	3282
Alternative 1													
Minimum	107	56	21	17	36	71	106	131	149	152	148	112	1188
70-yr Avg	201	110	76	96	108	165	235	283	350	389	338	209	2558
Maximum	248	139	111	147	151	221	310	372	471	534	452	263	3417
Alternative 2													
Minimum	107	56	21	17	36	71	106	131	149	152	148	112	1188
70-yr Avg	201	109	76	96	108	165	235	283	349	388	337	209	2555
Maximum	248	139	111	147	151	221	310	372	471	534	452	263	3417
Alternative 3													
Minimum	107	56	21	17	36	71	106	131	149	152	148	112	1188
70-yr Avg	201	110	76	96	108	165	235	283	350	389	338	209	2552
Maximum	248	139	111	147	151	221	310	372	471	534	452	263	3417
Alternative 2 Cumulative													
Minimum	107	56	21	17	36	71	106	131	149	152	148	112	1188
70-yr Avg	200	109	75	95	107	164	234	282	348	387	336	209	2547
Maximum	248	139	111	147	151	221	310	372	471	534	452	263	3417
Alternative 3 Cumulative													
Minimum	107	56	21	17	36	71	106	131	149	152	148	112	1188
70-yr Avg	200	109	75	95	107	164	234	282	348	387	336	209	2547
Maximum	248	139	111	147	151	221	310	372	471	534	452	263	3417
Alternative 1 Minus Existing Conditions													
Minimum	-24	-20	-39	-67	-59	-72	-92	-102	-144	-189	-144	-44	-726
70-yr Avg	15	6	-8	-21	-20	-26	-29	-28	-43	-66	-48	0	-268
Maximum	38	20	10	4	0	0	6	14	14	2	5	26	137
Alternative 2 Minus Alternative 1													
Minimum	-17	-12	-14	-20	-17	-21	-28	-33	-44	-53	-42	-20	-240
70-yr Avg	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0	-3
Maximum	12	8	9	13	11	14	18	22	29	36	28	13	136
Alternative 3 Minus Alternative 1													
Minimum	-16	-10	-12	-19	-16	-19	-26	-30	-42	-51	-39	-18	-223
70-yr Avg	0	0	0	0	-0	-0	-0	-0	0	-0	-0	0	0
Maximum	16	10	12	19	16	19	26	30	42	51	39	18	223
Alternative 2 Cumulative Minus Existing Conditions													
Minimum	-24	-20	-39	-67	-59	-72	-92	-102	-144	-189	-144	-44	-768
70-yr Avg	14	6	-8	-22	-21	-26	-30	-29	-45	-68	-50	-0	-279
Maximum	38	20	10	4	0	0	6	14	14	2	5	26	137
Alternative 3 Cumulative Minus Existing Conditions													
Minimum	-24	-20	-39	-67	-59	-72	-92	-102	-144	-189	-144	-44	-768
70-yr Avg	14	6	-8	-22	-21	-26	-30	-29	-44	-68	-50	-0	-274
Maximum	38	20	10	4	0	0	6	14	14	2	5	26	137



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Table C-23. Comparison of Combined Camanche and Pardee Storage for Each Alternative as Simulated by EBMUDSIM

	OCT (TAF)	NOV (TAF)	DEC (TAF)	JAN (TAF)	FEB (TAF)	MAR (TAF)	APR (TAF)	MAY (TAF)	JUN (TAF)	JUL (TAF)	AUG (TAF)	SEP (TAF)
Existing Conditions												
Minimum	23	19	16	23	36	29	30	31	28	26	20	23
70-yr Avg	420	416	416	422	424	444	469	490	515	487	453	428
Maximum	496	485	486	486	485	511	558	615	615	614	541	504
Alternative 1												
Minimum	20	16	16	16	17	25	24	26	23	21	16	20
70-yr Avg	389	383	383	386	390	406	423	444	470	443	412	389
Maximum	496	485	486	486	485	511	556	615	615	602	529	504
Alternative 2												
Minimum	40	36	36	36	37	45	44	46	43	40	36	40
70-yr Avg	407	406	410	414	413	429	449	465	490	464	431	408
Maximum	498	485	486	486	485	511	558	615	615	602	529	509
Alternative 3												
Minimum	93	80	70	87	111	137	131	127	120	112	101	99
70-yr Avg	426	421	420	422	422	440	458	480	506	481	450	429
Maximum	496	485	486	486	485	511	556	615	615	602	529	504
Alternative 1 Minus Existing Conditions												
Minimum	-136	-139	-145	-137	-142	-145	-152	-156	-151	-146	-141	-137
70-yr Avg	-31	-34	-33	-36	-34	-37	-45	-46	-46	-44	-41	-38
Maximum	17	21	20	6	0	0	0	0	0	-3	-3	3
Alternative 2 Minus Alternative 1												
Minimum	-0	0	-0	0	0	0	0	-0	-0	-0	-0	-0
70-yr Avg	18	24	27	28	24	23	26	22	20	20	20	18
Maximum	110	107	105	114	132	129	127	125	122	119	116	113
Alternative 3 Minus Alternative 1												
Minimum	-0	-0	-0	-1	-1	-2	-2	-1	-1	-0	-0	-0
70-yr Avg	38	39	37	35	33	33	35	36	36	37	38	39
Maximum	183	183	184	185	186	189	190	185	187	187	187	188



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Table C-24. Comparison of Camanche Releases for Each Alternative as Simulated by EBMUDSIM

	OCT (cfs)	NOV (cfs)	DEC (cfs)	JAN (cfs)	FEB (cfs)	MAR (cfs)	APR (cfs)	MAY (cfs)	JUN (cfs)	JUL (cfs)	AUG (cfs)	SEP (cfs)	ANNUAL (TAF)
Existing Conditions													
Minimum	109	115	147	114	96	121	158	236	298	271	232	168	125
70-yr Avg	369	355	496	508	648	450	446	1014	928	734	675	559	433
Maximum	1110	3306	4192	3380	5926	3478	3608	4380	3747	1921	1848	1707	1601
Alternative 1													
Minimum	126	120	116	127	130	129	228	247	309	281	211	177	134
70-yr Avg	264	389	473	536	609	496	569	1012	914	689	618	501	426
Maximum	411	3396	4169	3469	4943	3465	3589	4355	3717	2083	1976	1829	1601
Alternative 2													
Minimum	126	116	116	127	130	130	228	247	309	281	200	177	134
70-yr Avg	276	399	524	582	727	534	591	1072	943	703	630	511	452
Maximum	411	3396	4169	3469	5102	3465	3589	4355	3717	2083	1976	1829	1601
Alternative 3													
Minimum	126	130	130	130	130	130	230	247	309	281	242	177	236
70-yr Avg	282	408	524	597	683	531	575	1032	935	702	630	511	522
Maximum	411	3396	4169	3469	4943	3465	3589	4355	3717	2083	1976	1829	1588
Alternative 1 Minus Existing Conditions													
Minimum	-779	-191	-1387	-1099	-2197	-1097	-281	-571	-406	-385	-369	-364	-131
70-yr Avg	-105	33	-23	27	-39	46	122	-2	-14	-45	-56	-59	-7
Maximum	103	257	153	211	229	203	367	228	247	162	128	122	62
Alternative 2 Minus Alternative 1													
Minimum	-5	-4	0	0	0	0	0	0	0	0	-11	-3	-1
70-yr Avg	12	10	50	46	118	38	22	60	29	14	12	11	25
Maximum	94	90	995	689	1750	921	261	520	427	210	209	209	143
Alternative 3 Minus Alternative 1													
Minimum	0	0	0	0	0	0	-14	-32	-3	-3	-4	-5	0
70-yr Avg	18	19	51	62	73	35	6	21	21	13	12	10	21
Maximum	117	105	1165	1813	1575	1356	230	286	427	319	286	264	200



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Table C-25. Comparison of Power Generated at Folsom Dam for Each Alternative

	OCT (GW-hr)	NOV (GW-hr)	DEC (GW-hr)	JAN (GW-hr)	FEB (GW-hr)	MAR (GW-hr)	APR (GW-hr)	MAY (GW-hr)	JUN (GW-hr)	JUL (GW-hr)	AUG (GW-hr)	SEP (GW-hr)	ANNUAL (GW-hr)
Existing Conditions													
Minimum	11	9	5	4	5	6	6	6	6	8	6	7	81
70-yr Avg	57	61	60	59	66	75	59	58	46	34	36	46	656
Maximum	131	122	132	136	151	151	119	93	87	71	119	129	1387
Alternative 1													
Minimum	15	13	11	4	4	5	7	7	7	7	7	8	95
70-yr Avg	62	63	61	57	62	65	45	43	40	38	44	55	638
Maximum	131	122	132	136	151	151	115	92	86	87	119	130	1378
Alternative 2													
Minimum	8	13	10	4	4	5	7	7	7	7	7	8	95
70-yr Avg	62	63	61	57	62	65	45	43	40	38	45	55	636
Maximum	131	122	132	136	151	151	115	92	86	87	119	130	1378
Alternative 3													
Minimum	10	10	6	7	8	8	8	8	9	8	10	12	135
70-yr Avg	61	66	57	59	64	61	45	43	39	40	45	55	637
Maximum	131	131	136	151	151	151	92	87	76	119	126	130	1359
Alternative 2 Cumulative													
Minimum	8	13	10	4	4	4	7	7	7	7	7	7	90
70-yr Avg	59	62	58	54	58	62	43	40	33	37	43	52	601
Maximum	131	122	132	136	151	151	109	91	77	76	118	130	1358
Alternative 3 Cumulative													
Minimum	9	13	10	5	5	5	7	7	7	7	7	9	98
70-yr Avg	59	61	59	55	59	62	43	40	34	37	41	51	602
Maximum	131	122	132	136	151	151	109	91	77	74	118	130	1358
Alternative 1 Minus Existing Conditions													
Minimum	-22	-34	-26	-37	-45	-53	-56	-42	-37	-27	-11	-8	-84
70-yr Avg	5	2	2	-2	-4	-9	-13	-14	-5	5	9	9	-18
Maximum	43	26	27	22	21	23	27	16	30	42	32	43	46
Alternative 2 Minus Alternative 1													
Minimum	-8	-16	-13	-18	-18	-14	-11	-9	-13	-11	-14	-13	-56
70-yr Avg	0	-0	-1	-1	-1	-1	-0	-0	-0	-0	1	1	-2
Maximum	4	8	6	5	7	12	6	9	8	8	6	6	13
Alternative 3 Minus Alternative 1													
Minimum	-27	-55	-79	-34	-36	-51	-23	-18	-40	-8	-13	-13	-82
70-yr Avg	-0	3	-4	1	2	-5	-0	-0	-1	2	1	1	-1
Maximum	73	113	17	28	28	7	26	19	18	72	67	80	83
Alternative 2 Cumulative Minus Existing Conditions													
Minimum	-37	-39	-34	-46	-54	-62	-58	-43	-48	-27	-17	-23	-141
70-yr Avg	3	0	-2	-5	-8	-13	-16	-18	-12	3	7	6	-55
Maximum	25	24	19	17	21	22	16	16	19	31	27	22	9
Alternative 3 Cumulative Minus Existing Conditions													
Minimum	-31	-39	-29	-45	-45	-60	-56	-42	-48	-27	-17	-18	-121
70-yr Avg	3	0	-1	-5	-7	-13	-15	-18	-12	3	6	5	-54
Maximum	31	21	17	16	21	22	16	16	19	29	27	20	17



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Table C-26. Comparison of Power Generated at CVP North Facilities for Each Alternative

	OCT (GW-hr)	NOV (GW-hr)	DEC (GW-hr)	JAN (GW-hr)	FEB (GW-hr)	MAR (GW-hr)	APR (GW-hr)	MAY (GW-hr)	JUN (GW-hr)	JUL (GW-hr)	AUG (GW-hr)	SEP (GW-hr)	ANNUAL (GW-hr)
Existing Conditions													
Minimum	106	100	114	194	254	225	267	208	136	127	123	96	2141
70-yr Avg	338	354	382	408	498	527	597	485	294	253	261	341	4738
Maximum	979	877	989	839	827	822	806	718	527	411	838	978	9270
Alternative 1													
Minimum	102	112	116	189	232	193	218	157	133	90	97	96	1954
70-yr Avg	336	349	381	375	471	498	513	441	260	242	248	320	4433
Maximum	979	794	903	847	788	821	802	721	534	403	824	963	8778
Alternative 2													
Minimum	104	115	114	189	232	193	218	156	133	90	91	95	1963
70-yr Avg	337	349	380	375	469	498	512	439	260	243	249	321	4432
Maximum	979	796	903	847	788	821	802	721	534	403	824	963	8772
Alternative 3													
Minimum	101	112	116	180	232	197	194	134	141	95	96	97	1980
70-yr Avg	348	377	362	397	480	499	498	397	258	247	255	379	4498
Maximum	979	903	880	789	821	802	734	655	407	824	963	4713	8467
Alternative 2 Cumulative													
Minimum	105	114	113	190	232	189	214	164	133	90	91	95	1936
70-yr Avg	334	348	377	372	466	494	508	437	252	241	246	317	4392
Maximum	979	794	903	847	780	821	795	720	525	400	823	963	8752
Alternative 3 Cumulative													
Minimum	102	111	115	189	232	191	215	165	133	93	93	96	1921
70-yr Avg	335	348	378	371	467	494	509	436	253	241	245	316	4393
Maximum	979	805	903	847	780	821	795	720	525	400	823	963	8753
Alternative 1 Minus Existing Conditions													
Minimum	-150	-161	-107	-192	-213	-267	-255	-211	-92	-94	-235	-192	-706
70-yr Avg	-2	-4	-1	-33	-27	-29	-85	-44	-34	-11	-13	-21	-305
Maximum	78	70	87	72	54	76	42	127	22	81	122	56	112
Alternative 2 Minus Alternative 1													
Minimum	-10	-16	-15	-21	-41	-16	-30	-78	-14	-13	-10	-10	-32
70-yr Avg	1	-0	-1	0	-2	-1	-1	-1	-0	1	1	1	-1
Maximum	32	8	14	17	7	7	6	16	9	23	19	19	38
Alternative 3 Minus Alternative 1													
Minimum	-35	-14	-45	-29	-32	-16	-2	-15	-21	-18	-21	-77	-80
70-yr Avg	-2	0	-1	0	-0	1	2	1	-0	2	-1	-2	-0
Maximum	6	20	19	20	20	7	12	17	12	95	7	20	111
Alternative 2 Cumulative Minus Existing Conditions													
Minimum	-150	-153	-111	-193	-220	-265	-274	-208	-114	-96	-236	-194	-770
70-yr Avg	-4	-6	-5	-36	-32	-33	-89	-48	-42	-12	-15	-24	-347
Maximum	73	73	93	67	53	64	38	112	9	103	122	55	76
Alternative 3 Cumulative Minus Existing Conditions													
Minimum	-150	-156	-109	-193	-208	-264	-273	-211	-114	-96	-236	-194	-761
70-yr Avg	-4	-6	-4	-37	-31	-33	-88	-49	-41	-12	-16	-24	-345
Maximum	74	85	87	68	53	65	40	119	9	116	120	50	93



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**Table C-27. Comparison of Full Use Alternative 3 Scenario Values to Alternative 1
for Selected Locations as Simulated by PROSIM**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL (TAF)
Folsom Lake Storage Minus Alternative 1 (TAF)													
Minimum	-88	-96	-109	-40	-29	-29	-35	-47	-60	-63	-67	-74	N/A
70-yr Avg	-4	-3	-2	1	1	1	1	-0	-2	-4	-5	-5	N/A
Maximum	20	71	132	178	82	82	74	74	49	29	28	15	N/A
Flow Below Nimbus Minus Alternative 1 (cfs)													
Minimum	-548	-1000	-1000	-1778	-726	-361	-250	0	-250	-102	-448	-593	-73
70-yr Avg	-19	-20	-17	-43	-0	-5	9	19	22	35	24	-1	0
Maximum	291	157	328	300	1726	0	544	454	750	578	506	218	71
* Flow Below Fairbairn WTP Minus Alternative 1 (cfs)													
Minimum	-842	-1282	-1267	-1999	-998	-578	-521	-324	-467	-473	-664	-951	-295
70-yr Avg	-283	-277	-264	-290	-250	-261	-257	-263	-283	-276	-285	-305	-199
Maximum	-3	-81	61	33	1454	-189	247	130	533	208	138	1	-86
Trinity Storage Minus Alternative 1 (TAF)													
Minimum	-103	-103	-103	-103	-103	-102	-102	-102	-102	-101	-101	-101	N/A
70-yr Avg	-6	-6	-6	-6	-6	-6	-5	-4	-4	-4	-4	-3	N/A
Maximum	14	14	14	14	14	14	14	14	14	14	14	14	N/A
Shasta Lake Storage Minus Alternative 1 (TAF)													
Minimum	-86	-86	-86	-77	-84	-106	-124	-128	-144	-144	-147	-159	N/A
70-yr Avg	-14	-12	-8	-7	-6	-5	-7	-8	-10	-14	-18	-19	N/A
Maximum	38	30	30	30	33	48	63	63	63	51	51	51	N/A
Sacramento River Flow at Keswick Minus Alternative 1 (cfs)													
Minimum	-620	-415	-1684	-436	-596	-250	-250	-157	-512	0	-242	-344	-104
70-yr Avg	-9	-33	-56	-27	-17	-12	13	14	31	74	60	3	3
Maximum	330	250	368	0	569	191	250	677	445	493	661	371	92
Sacramento River Flow at Freeport Minus Alternative 1 (cfs)													
Minimum	-1264	-5541	-1798	-2245	-2619	-1832	-1926	-577	-1586	-832	-672	-739	-475
70-yr Avg	-316	-448	-285	-378	-364	-354	-275	-246	-242	-41	-157	-168	-197
Maximum	69	15	737	272	1130	481	153	726	703	1137	558	400	-12
Lake Oroville Storage Minus Alternative 1 (TAF)													
Minimum	-409	-414	-424	-408	-384	-384	-384	-383	-382	-389	-397	-399	N/A
70-yr Avg	-97	-90	-90	-83	-67	-62	-61	-64	-68	-81	-89	-100	N/A
Maximum	21	21	1	1	1	1	1	17	3	23	42	21	N/A

* Notes: Deliveries to EBMUD and County are not added to PROSIM results; therefore, Fairbairn flow data are representative of conditions below I-5 intake structure.
N/A = Not applicable - annual average storage values not included.



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Table C-27. continued

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ANNUAL (TAF)
Feather River Flow at Nicholas Minus Alternative 1 (cfs)													
Minimum	-970	-5259	-1357	-1248	-6816	-1550	-1625	-283	-1225	-496	-305	-255	-373
70-yr Avg	7	-121	5	-110	-295	-87	-2	44	67	220	126	188	4
Maximum	759	297	1003	384	337	762	451	1048	1066	1504	735	838	215
Total Delta Inflow Minus Alternative 1 (cfs)													
Minimum	-1155	-5435	-2388	-2330	-6983	-1721	-1821	-467	-1473	-719	-559	-642	-519
70-yr Avg	-185	-322	-163	-264	-392	-238	-167	-119	-111	81	-35	-46	-117
Maximum	200	120	1000	880	1084	1186	265	839	825	1257	902	513	78
Total Delta Outflow Minus Alternative 1 (cfs)													
Minimum	-375	-5435	-2388	-2330	-6983	-2565	-1821	-755	-958	-289	-255	-270	-499
70-yr Avg	-62	-232	-179	-308	-555	-277	-139	-108	-63	-7	-34	-41	-119
Maximum	77	155	1000	880	1084	1186	166	149	257	314	225	165	43
SWP Deliveries Minus Alternative 1 (TAF)													
Minimum	-15	-13	-13	-9	-11	-13	-15	-20	-26	-27	-26	-20	-146
70-yr Avg	0	0	0	0	0	1	1	1	1	1	1	1	8
Maximum	15	13	13	10	11	13	15	21	26	27	27	20	150
CVP South of Delta Deliveries Minus Alternative 1 (TAF)													
Minimum	-16	-10	-12	-19	-16	-19	-26	-30	-42	-51	-39	-18	-223
70-yr Avg	-0	-0	-0	-0	-0	-0	-0	-0	-1	-1	-1	-0	-4
Maximum	12	8	9	13	11	14	18	22	29	36	28	13	136
Power Generated at Folsom Dam Minus Alternative 1 (GW-hr)													
Minimum	-30	-12	-5	-4	-0	-4	-2	-7	-11	-9	-14	-14	-34
70-yr Avg	-1	0	-0	0	0	0	1	0	-0	-0	-0	-0	-0
Maximum	1	27	1	10	8	13	11	9	3	4	1	6	46
Power Generated at CVP North Facilities Minus Alternative 1 (GW-hr)													
Minimum	-46	-12	-9	-30	-33	-3	-4	-11	-20	-17	-21	-84	-47
70-yr Avg	-2	-0	-1	-0	0	1	3	1	-1	1	-1	-2	-0
Maximum	9	17	5	22	20	8	15	18	13	92	7	24	110



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